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SMD INDUCTIVE COMPONENTS for AUTOMOTIVE

ABC-ATEC Electronics Group

ABC Taiwan Electronics Corp.

SMD INDUCTIVE COMPONENTS for AUTOMOTIVE
ABC TAIWAN ELECTRONICS CORP.

COMPANY HISTORY

ABC TAIWAN ELECTRONICS CORP. is one of the leading manufacturers for quality inductors and transformers. We specialize in design and manufacturing electromagnetic components for various industries — Telecommunication, Industry Controls, Automotive products, and, Consumer etc.

In 1979, forty-three years ago, ABC was established in YANGMEI district. People here are diligent and hardworking. We gathered a competent and dedicated team applying the latest technology to cater design-in parts, deliver high level of services, and provide good quality products for our customers.

Our innovative product development allows us to offer fast service, excellent quality parts and competitive price to match our customers' needs. ABC's ultimate goal is to achieve total customer satisfaction through continuous improvement and development.

ARBUTUS (**YANGMEI**, in Chinese) a beautiful, luxuriant and whole year green tree, two hundreds years ago, immigrants arrived here, they found all the field in this valley were **ARBUTUS** (**YANGMEI**), so, they called this town—**YANGMEI**.

1979
- **ABC TAIWAN ELECTRONICS CORP.** was founded in Hsiotsai Rd., Yangmei, Taiwan capital
- NT$ 5,800,000(US$145,000) and 5 employees Started producing choke coil in Sep.

1980
- Moved to Kuanghwa St., Yangmei, and 15 employees.
- Land acquisition of No.422, Sec.1 Yangfu Rd..

1981
- Started factory building construction.
- Acquired the second prize of good supplier from CANON.

1982
- Factory building completed and Axial Lead Choke Coils conformal coating auto processing line initialed.
- Capital increase to NT$6,115,000(US$ 152,875) and forty-seven employee.

1984
- EMI Filter and DC-DC Converter entered U.S.A., Singapore & UK Market.
- Started the R/D for EMI Filters and DC-DC CONVERTERS entered U.S.A., Singapore & UK Market.

1990
- New design CM series Wound Chip Inductor R&D completed and started production.

COMPANY HISTORY

1991
- CM chip inductor series was awarded 4 years tax exemption from Taiwan government.
- CM chip inductor series patent certificated in Germany #G9108527.6 and Taiwan #66599.

1995
- China Factory - ABC ELECTRONICS (PANYU) CORP. Started production (March 29, 1995).

2000
- ABC Electronics (Panyu) CORP. 2nd factory grand opened.
- Started Taiwan HQ building expansion.
- Starting Stock Initial Public Offer (IPO) processed.
- Overall Employee beneficial share system started.
- Acquired the Good Supplier Award from Garmin.

2001
- Acquired the 10th National Award of Small and Medium Enterprises.

2004
- MPC for High Frequency Capacitor patent certificated in Taiwan #188853 & #210097.
- Ceramic Heat Sink with Micro-pores Structure patent in Taiwan #189036, #213446 & #220351.
- Ceramic Heat Sink with Micro-pores Structure patent in Germany #20314728.6, Japan #3100267 & USA #US6705393B1.
- ABC Electronics (Shanghai) Factory. started production.
- Became a public trade company, Stock Listed in Taiwan Gretai (OTC) Securities Market.

2006
- Automotive Quality System TS 16949 Certificated.

2007
- Hazardous Substance Process Management IECQ QC 080000 Certificated.

2008
- Micromesh (Micro-pores) Material Producing Method Patent certificated in China #ZL 02 1 49137.2 (Aug. 6, 2008).
- Set up Precision Metal Parts Div., Factory located in Pingjhen Industrial Park. (Jan. 1, 2008).
- Opto-elec & Mechanic Components Div. launched 5 new models LED Shaped Lamps, and Stared OEM/ODM business. (Apr.).
- MES(Manufacturing Executive System) introduced into Shanghai factory (Nov.).

2009
- Started high current inductor, HP series production.
- Battery Cap improvement awarded 2 patents in Taiwan.

COMPANY HISTORY

2010
- MPC Heatsink was designed in the Samsung 2.8 cm Super Slim LED TV, launched in Q1.

2012
- Officially took over AOBA Technology as a subsidiary (2012.04.01).

2013
- Customer Approval for contract manufacturer with integrated mass production and quality control.

2014
- MCU product entered automotive market.
- For Ethernet application, Common Mode Choke patent acquired in Taiwan and China, and started production.

2015
- ASF products massed production.
- DP product line set up and promoted to market.
- Common Mode Filter and Core patents acquired in Germany.

2016
- ABC Shanghai and Malaysia factory - AOBA Technology, TS 16949 Certificated.

2017
- ABC Taiwan IATF 16949 Certificated.

2018
- Yangmei II Factory Started Production (2018.04.01).
- IECQ QC 080000 : 2017 Certificated.

2019
- ISO 14001 Environmental Management System Re-certificated
- Yangmei II Factory started Ethernet EMI Common Mode Filters and Monolithic Power Inductors Lines Set up & Trial Run (2019.12.05).

2020
- Common mode line filter AQF series launched for EMI noise suppression and automotive standard qualification.
- E-field Shielded High Current Power Inductor HS series lanuched.

2021
- Joined the Mobility In Harmony (MIH) platform alliance and became Open EV Alliance member (2021.03.30).

INDEX SMD Inductive Component

Figure	Profile	Type	Dimension (LxWxH mm)	Inductance	Rated Current	AEC-Q200 Grade	Page
Wire Wound Chip Inductor							
	RF Ceramic	SWI0402CT-A1	1.0 x 0.6 x 0.5	1.0 ~ 120 nH	1.4 A ~ 110 mA	Grade 1	1
		SWI0603CS-A1	1.7 x 1.2 x 0.9	1.6 ~ 390 nH	700 mA ~ 130 mA		1
Wound Chip Inductor							
	High Current	ACC3225	3.2 x 2.5 x 2.2	0.1 ~ 100 µH	2.8 A ~ 150 mA	Grade 1	5
		ACC4532	4.5 x 3.2 x 3.2	1.0 ~ 1,000 µH	2.3 A ~ 80 mA		5
Shielded SMD Power Inductor							
	Molded - High current	MHE0630-T	7.1 x 6.6 x 3.0	0.33 ~ 33 µH	21 A ~ 2.5 A	Grade 0	8
		MHE0640-T	7.1 x 6.6 x 4.0	1.0 ~ 68 µH	12 A ~ 1.5 A		8
		MHE1040-T	12 x 10 x 4.0	2.2 ~ 100 µH	15 A ~ 2.0 A		8
	Molded - High Saturation	MHE0630-Q	7.1 x 6.6 x 3.0	0.1 ~ 10 µH	34 A ~ 4.0 A	Grade 0	11
		MHE1040-Q	12 x 10 x 4.0	0.7 ~ 47 µH	23 A ~ 3.5 A		11
	Metal Cover Molded	MHS0735-S	7.2 x 7.2 x 3.5	0.33 ~ 33 µH	21 A ~ 2.5 A	Grade 0	14
		MHS1145-S	12 x 10.7 x 4.5	2.2 ~ 100 µH	15 A ~ 2.0 A		14
	Metal Cover Molded - High Saturation	MHS0735-E	7.2 x 7.2 x 3.5	0.1 ~ 10 µH	34 A ~ 4.0 A	Grade 0	17
		MHS1145-E	12 x 10.7 x 4.5	1.0 ~ 68 µH	18 A ~ 3.0 A		17
	Semi-shielded	MSN3030	3.0 x 3.0 x 3.0	1.0 ~ 100 µH	2.6 A ~ 250 mA	Grade 0	20
		MSN4030	4.0 x 4.0 x 3.0	1.0 ~ 100 µH	5.5 A ~ 550 mA		20
		MSN5030	5.0 x 5.0 x 3.0	0.47 ~ 100 µH	7.0 A ~ 450 mA		20
		MSN5040	5.0 x 5.0 x 4.0	1.5 ~ 47 µH	5.2 A ~ 1.1 A		20
		MSN6045	6.0 x 6.0 x 4.7	0.55 ~ 100 µH	7.0 A ~ 720 mA		20
		TPI4018CT-A1	4.0 x 4.0 x 1.9	0.82 ~ 220 µH	4.0 A ~ 280 mA	Grade 1	25
		TPI6045CT-A1	6.0 x 6.0 x 4.5	1.0 ~ 330 µH	6.5 A ~ 400 mA		27
		MRN8040	8.2 x 7.9 x 4.2	0.5 ~ 100 µH	10 A ~ 1.0 A	Grade 0	30
SMD Power Inductor							
	Non-Shielded	AER0403	Ø4.5 x 4.0 x 3.2	1.0 ~ 68 µH	2.7 A ~ 400 mA		32
		AER0604	Ø5.8 x 5.2 x 4.5	1.2 ~ 220 µH	5.3 A ~ 470 mA	Grade 1	32
		AER0805	Ø7.8 x 7.0 x 5.0	1.5 ~ 470 µH	5.8 A ~ 400 mA		32
		MER1006	Ø10 x 9.0 x 5.4	1.8 ~ 820 µH	7.2 A ~ 450 mA	Grade 0	32
		ASR1011	Ø9.5 x Ø9.5 x 12	10 ~ 1,000 µH	3.5 A ~ 300 mA		39
		ASB7030	7.0 x 7.0 x 3.0	1.0 ~ 680 µH	3.0 A ~ 180 mA		41
		ASB7045	7.0 x 7.0 x 4.5	1.2 ~ 1,000 µH	3.8 A ~ 200 mA		41
		ASB1305	13 x 13 x 4.8	2.5 ~ 1,000 µH	7.2 A ~ 460 mA	Grade 1	41
		ASB1806	14 x 18 x 6.6	1.0 ~ 1,000 µH	10 A ~ 500 mA		45
		ASB2207	22 x 15 x 7.0	0.8 ~ 100 µH	16 A ~ 2.0 A		47

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Figure	Profile	Type	Dimension (LxWxH mm)	Inductance	Rated Current	AEC-Q200 Grade	Page
Shielded SMD Power Inductor							
		AQS3818	3.8 x 3.8 x 1.8	1.0 ~ 220 µH	2.1 A ~ 160 mA	Grade 1	49
		AQS4818	4.8 x 4.8 x 1.8	1.0 ~ 47 µH	3.6 A ~ 470 mA	Grade 0	49
		AQS4828	4.8 x 4.8 x 2.8	1.2 ~ 220 µH	3.0 A ~ 240 mA		49
		AQS5818	5.8 x 5.8 x 1.8	1.5 ~ 220 µH	3.0 A ~ 240 mA		49
		AQS5828	5.8 x 5.8 x 2.8	2.6 ~ 1,000 µH	2.2 A ~ 130 mA		49
		AQS6822	6.8 x 6.8 x 2.3	1.0 ~ 1,000 µH	4.2 A ~ 130 mA	Grade 1	49
		MQS3228	3.3 x 3.3 x 2.8	10 ~ 100 µH	800 mA ~ 240 mA		57
		MQS5228	5.2 x 5.2 x 2.8	1.2 ~ 1,000 µH	3.9 A ~ 150 mA		57
		MQS6828	6.8 x 6.8 x 2.8	2.5 ~ 1,000 µH	3.4 A ~ 170 mA		57
		MBS0703	7.3 x 7.3 x 3.5	10 ~ 1,000 µH	1.9 A ~ 170 mA	Grade 0	61
		MBS0704	7.3 x 7.3 x 4.5	10 ~ 1,000 µH	2.1 A ~ 200 mA		61
	Standard	ASU3028	3.3 x 3.5 x 2.8	10 ~ 47 µH	720 mA ~ 320 mA		65
		ASU5028	5.2 x 5.2 x 2.8	1.2 ~ 100 µH	3.4 A ~ 420 mA		67
		ASU6025	6.2 x 6.5 x 2.5	1.2 ~ 220 µH	3.2 A ~ 240 mA		67
		ASU8028	8.0 x 8.0 x 2.8	2.5 ~ 100 µH	4.2 A ~ 700 mA		67
		ASU8030	8.0 x 8.0 x 2.8	3.3 ~ 100 µH	4.6 A ~ 750 mA		67
		ASU8040	8.0 x 8.0 x 3.8	3.3 ~ 150 µH	5.0 A ~ 770 mA		67
		ASU8045	8.0 x 8.0 x 4.5	3.5 ~ 100 µH	5.0 A ~ 920 mA		67
		ASU8058	8.0 x 8.0 x 5.8	3.9 ~ 100 µH	4.5 A ~ 900 mA	Grade 1	67
		ASU1028	10 x 10 x 2.8	1.0 ~ 150 µH	7.0 A ~ 650 mA		67
		ASU1030	10 x 10 x 2.8	3.5 ~ 150 µH	5.0 A ~ 840 mA		67
		ASU1038	10 x 10 x 3.8	1.5 ~ 330 µH	7.0 A ~ 520 mA		67
		ASU1040	10 x 10 x 3.8	3.8 ~ 330 µH	5.8 A ~ 600 mA		67
		ASU1048	10 x 10 x 4.8	1.5 ~ 330 µH	7.0 A ~ 520 mA		67
		ASU1050	10 x 10 x 4.8	4.7 ~ 1,000 µH	5.1 A ~ 400 mA		67
		ASU1065	10 x 10 x 6.6	2.8 ~ 100 µH	6.5 A ~ 1.4 A		67

INDEX SMD Inductive Component

Figure	Profile	Type	Dimension (LxWxH mm)	Inductance /impedance	Rated Current	AEC-Q200 Grade	Page
Shielded SMD Power Inductor							
	High Inductance	ASS7032	7.0 x 7.0 x 3.2	2.2 ~ 1,000 µH	2.6 A ~ 140 mA		81
		ASS1005	10 x 13 x 4.9	1.0 ~ 3,300 µH	4.5 A ~ 100 mA		83
		ASS1210	12 x 12 x 10	1.0 ~ 1,000 µH	11 A ~ 700 mA		87
		ASS1240	13 x 13 x 4.0	10 ~ 1,000 µH	4.0 A ~ 400 mA	Grade 1	90
		ASS1260	13 x 13 x 6.0	1.0 ~ 1,000 µH	9.4 A ~ 600 mA		90
		MSS1280	13 x 13 x 7.5	2.4 ~ 1,200 µH	9.2 A ~ 550 mA		90
		ASS1806	14 x 18 x 6.8	10 ~ 1,000 µH	4.0 A ~ 450 mA		95
	High Performance	ACU1048	10.0 x 10.2 x 4.8	0.68 ~ 470 µH	9.5 A ~ 600 mA	Grade 0	97
		MCU1227	12.5 x 12.8 x 7.7	22 ~ 470 µH	5.5 A ~ 1.1 mA		101
	Coupled	MBF0703	7.6 x 7.6 x 3.4	8.2 ~ 1000 µH	2.19 A ~ 260 mA	Grade 0	103
		MSF1258	12.5 x 12.5 x 6.0	0.47 ~ 1,000 µH	14.6 A ~ 570 mA	Grade 1	105
		MSF1278	12.5 x 12.5 x 8.0	0.47 ~ 1,000 µH	14.6 A ~ 610 mA		105
SMD Line Filter							
	Data Line	MSF3225	3.2 x 2.5 x 2.5	100 ~ 100 µH	100 mA ~ 100 mA	Grade 1	109
		ASF4532-E	4.5 x 3.2 x 3.0	200 ~ 200 µH	110 mA ~ 110 mA		111
		ASF4532-C	4.5 x 3.2 x 3.0	11 ~ 100 µH	360 mA ~ 200 mA	Grade 0	111
		MSF9050	9.2 x 6.0 x 5.0	10 ~ 6,500 µH	1.6 A ~ 300 mA	Grade 2	115
	Power Line	AQF7035	7.0 x 6.0 x 3.5	225 ~ 1,800 Ω	5.0 A ~ 1.2 A		117
		AQF9045	9.0 x 7.0 x 4.5	500 ~ 500 Ω	5.0 A ~ 5.0 A	Grade 1	117
		AQF1260	12 x 11 x 6.0	500 ~ 750 Ω	8.0 A ~ 6.0 A		117

Part Number Expression

MHE	0640	330	M	P	B	-			
1	2	3	4	5	6		7		

1	Product Type		
2	Dimension		
3	Value	Code	Define
		1N2	1.2 nH
		14N	14 nH
		R14	0.14 μH / 140 nH
		2R2	2.2 μH
		100	10 μH / 10 Ω
		201	200 μH / 200 Ω
		210	210 μH / 210 Ω
		102	1,000 μH / 1,000 Ω

4	Tolerence	Code	Define
		B	±0.1nH
		C	±0.2nH
		D	±0.3nH
		G	±2%
		H	±3%
		J	±5%
		K	±10%
		M	±20%
		Y	Others
5	Classification		
6	Packing code		
7	Reference code		

Part Number Expression for SWI, PWC, LPI, HCI, TPI Types

SWI	0402	C	T	3N9	J	-	A1
1	2	3	4	5	6		7

1	Product Type		
2	Dimension		
3	Material Type	Code	Define
		C	Ceramic
		F	Ferrite
		P	Ferrite with Magnetic Shield
		S	Shielded
		H	Non-Shielded
4	T or S for taping		

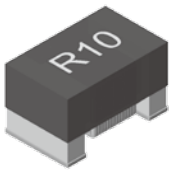
3+4	Material Type	Code	Define
		HP	High Current
		HQ	High Q

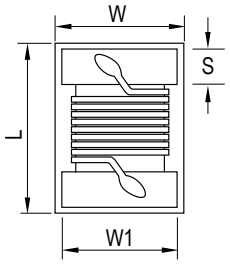
5	Value	Code	Define
		1N2	1.2 nH
		14N	14 nH
		R14	0.14 μH / 140 nH
		2R2	2.2 μH
		100	10 μH
6	Tolerence	Code	Define
		B	±0.20 nH
		S	±0.30 nH for SWI ±25% for PWC
		G	±2%
		J	±5%
		K	±10%
		M	±20%
		N	±30%
7	Automotive		

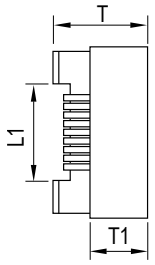
SWI SERIES

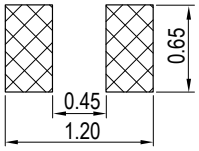
0402CT / 0603CS-A1

RF Ceramic

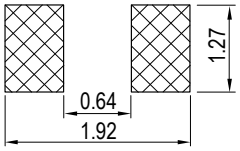








SWI0402CT-A1



SWI0603CS-A1

(PCB Pattern)

Unit: mm

Series	L	W	T	S	L1	W1	T1
SWI0402CT-A1	1.00±0.10	0.55±0.10	0.50±0.10	0.20±0.10	0.60 ref.	0.48 ref.	0.25 ref.
SWI0603CS-A1	1.65±0.20	1.15±0.20	0.90±0.20	0.30±0.10	0.92 ref.	0.76 ref.	0.50 ref.

Features

- Wide range of inductance
- High Q
- High SRF
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- PEPS

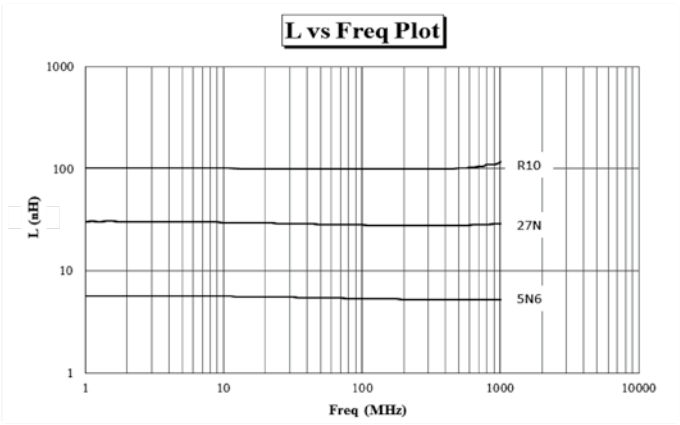
SWI0402 CT Series						
Part No.	Inductance[1] (nH) KEY	Tolerance	Q[2] min.	SRF[3] (GHz) min.	RDC[4] (Ω) max.	IDC[5] (mA) max.
SWI0402CT 1N0 ☐-A1	1.0 @ 250MHz	B, S	13 @ 250MHz	6000	0.045	1360
SWI0402CT 1N5 ☐-A1	1.5 @ 250MHz	B, S	16 @ 250MHz	6000	0.070	1040
SWI0402CT 1N9 ☐-A1	1.9 @ 250MHz	B, S	16 @ 250MHz	6000	0.070	1040
SWI0402CT 2N0 ☐-A1	2.0 @ 250MHz	B, S	16 @ 250MHz	6000	0.070	1040
SWI0402CT 2N2 ☐-A1	2.2 @ 250MHz	B, S	18 @ 250MHz	6000	0.070	960
SWI0402CT 2N4 ☐-A1	2.4 @ 250MHz	B, S	16 @ 250MHz	6000	0.068	790
SWI0402CT 2N7 ☐-A1	2.7 @ 250MHz	B, S	16 @ 250MHz	6000	0.120	860
SWI0402CT 3N3 ☐-A1	3.3 @ 250MHz	B, J, K	20 @ 250MHz	6000	0.066	840
SWI0402CT 3N6 ☐-A1	3.6 @ 250MHz	B, J, K	20 @ 250MHz	6000	0.066	840
SWI0402CT 3N9 ☐-A1	3.9 @ 250MHz	B, J, K	20 @ 250MHz	5800	0.066	840
SWI0402CT 4N3 ☐-A1	4.3 @ 250MHz	B, J, K	18 @ 250MHz	6000	0.091	700
SWI0402CT 4N7 ☐-A1	4.7 @ 250MHz	B, J, K	15 @ 250MHz	4775	0.130	640
SWI0402CT 5N1 ☐-A1	5.1 @ 250MHz	B, J, K	23 @ 250MHz	5800	0.083	800
SWI0402CT 5N6 ☐-A1	5.6 @ 250MHz	B, J, K	23 @ 250MHz	5800	0.083	760
SWI0402CT 6N2 ☐-A1	6.2 @ 250MHz	B, J, K	23 @ 250MHz	5800	0.083	760
SWI0402CT 6N8 ☐-A1	6.8 @ 250MHz	B, J, K	20 @ 250MHz	4800	0.083	680
SWI0402CT 7N5 ☐-A1	7.5 @ 250MHz	B, J, K	25 @ 250MHz	5800	0.104	680
SWI0402CT 8N2 ☐-A1	8.2 @ 250MHz	B, J, K	25 @ 250MHz	4400	0.104	680
SWI0402CT 8N7 ☐-A1	8.7 @ 250MHz	B, J, K	18 @ 250MHz	4100	0.200	480
SWI0402CT 9N0 ☐-A1	9.0 @ 250MHz	B, J, K	25 @ 250MHz	4160	0.104	680
SWI0402CT 9N5 ☐-A1	9.5 @ 250MHz	B, J, K	18 @ 250MHz	4000	0.200	680
SWI0402CT 10N ☐-A1	10 @ 250MHz	G, J, K	23 @ 250MHz	3900	0.195	480
SWI0402CT 11N ☐-A1	11 @ 250MHz	G, J, K	26 @ 250MHz	3680	0.120	640
SWI0402CT 12N ☐-A1	12 @ 250MHz	G, J, K	26 @ 250MHz	3600	0.120	640
SWI0402CT 13N ☐-A1	13 @ 250MHz	G, J, K	24 @ 250MHz	3450	0.210	560
SWI0402CT 15N ☐-A1	15 @ 250MHz	G, J, K	26 @ 250MHz	3280	0.172	560
SWI0402CT 16N ☐-A1	16 @ 250MHz	G, J, K	24 @ 250MHz	3100	0.220	560
SWI0402CT 18N ☐-A1	18 @ 250MHz	G, J, K	25 @ 250MHz	3100	0.230	520
SWI0402CT 19N ☐-A1	19 @ 250MHz	G, J, K	26 @ 250MHz	3040	0.202	480
SWI0402CT 20N ☐-A1	20 @ 250MHz	G, J, K	25 @ 250MHz	3000	0.250	420
SWI0402CT 22N ☐-A1	22 @ 250MHz	G, J, K	25 @ 250MHz	2800	0.300	400
SWI0402CT 23N ☐-A1	23 @ 250MHz	G, J, K	26 @ 250MHz	2720	0.214	400
SWI0402CT 24N ☐-A1	24 @ 250MHz	G, J, K	25 @ 250MHz	2700	0.300	400
SWI0402CT 27N ☐-A1	27 @ 250MHz	G, J, K	26 @ 250MHz	2480	0.298	400
SWI0402CT 30N ☐-A1	30 @ 250MHz	G, J, K	25 @ 250MHz	2350	0.300	400
SWI0402CT 33N ☐-A1	33 @ 250MHz	G, J, K	24 @ 250MHz	2350	0.350	400
SWI0402CT 36N ☐-A1	36 @ 250MHz	G, J, K	26 @ 250MHz	2320	0.403	320
SWI0402CT 39N ☐-A1	39 @ 250MHz	G, J, K	25 @ 250MHz	2100	0.550	320
SWI0402CT 40N ☐-A1	40 @ 250MHz	G, J, K	26 @ 250MHz	2240	0.438	320
SWI0402CT 43N ☐-A1	43 @ 250MHz	G, J, K	25 @ 250MHz	2030	0.810	240
SWI0402CT 47N ☐-A1	47 @ 200MHz	G, J, K	26 @ 200MHz	2100	0.830	210
SWI0402CT 51N ☐-A1	51 @ 200MHz	J, K	25 @ 200MHz	1750	0.820	210
SWI0402CT 56N ☐-A1	56 @ 200MHz	J, K	22 @ 200MHz	1760	0.970	200
SWI0402CT 68N ☐-A1	68 @ 200MHz	J, K	22 @ 200MHz	1620	1.120	180
SWI0402CT 82N ☐-A1	82 @ 150MHz	J, K	20 @ 150MHz	1500	1.250	150
SWI0402CT 91N ☐-A1	91 @ 150MHz	J, K	20 @ 150MHz	1350	2.300	120
SWI0402CT R10 ☐-A1	100 @ 150MHz	J, K	20 @ 150MHz	1300	2.520	120
SWI0402CT R12 ☐-A1	120 @ 150MHz	J, K	20 @ 150MHz	1100	2.660	110

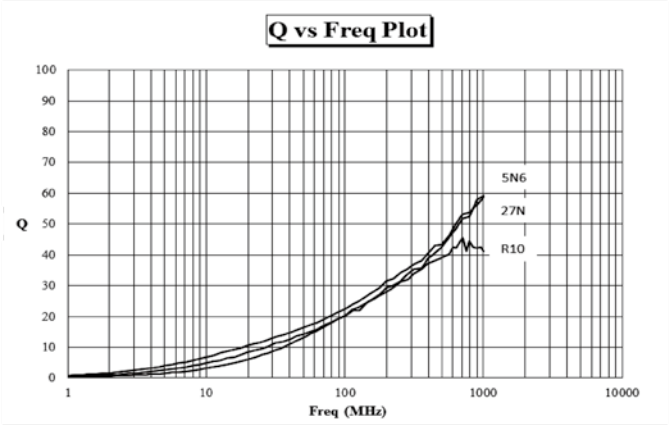
SWI0603 CS Series						
Part No.	Inductance[1] (nH) KEY	Tolerance	Q[2] min.	SRF[3] (GHz) min.	RDC[4] (Ω) max.	IDC[5] (mA) max.
SWI0603CS 1N6 ☐-A1	1.6 @ 250MHz	B, S, K	18 @ 250MHz	12500	0.030	700
SWI0603CS 1N8 ☐-A1	1.8 @ 250MHz	B, S, K	16 @ 250MHz	>8500	0.045	700
SWI0603CS 2N2 ☐-A1	2.2 @ 250MHz	B, S, K	13 @ 250MHz	>8500	0.110	700
SWI0603CS 3N3 ☐-A1	3.3 @ 250MHz	J, K	35 @ 250MHz	6000	0.045	700
SWI0603CS 3N6 ☐-A1	3.6 @ 250MHz	J, K	22 @ 250MHz	6000	0.070	700
SWI0603CS 3N9 ☐-A1	3.9 @ 250MHz	J, K	22 @ 250MHz	6900	0.070	700
SWI0603CS 4N3 ☐-A1	4.3 @ 250MHz	J, K	22 @ 250MHz	5900	0.070	700
SWI0603CS 4N7 ☐-A1	4.7 @ 250MHz	J, K	20 @ 250MHz	5800	0.080	700
SWI0603CS 5N1 ☐-A1	5.1 @ 250MHz	J, K	18 @ 250MHz	5700	0.150	700
SWI0603CS 5N6 ☐-A1	5.6 @ 250MHz	J, K	16 @ 250MHz	5500	0.190	700
SWI0603CS 6N2 ☐-A1	6.2 @ 250MHz	J, K	25 @ 250MHz	5800	0.100	700
SWI0603CS 6N8 ☐-A1	6.8 @ 250MHz	G, J, K	27 @ 250MHz	5800	0.100	700
SWI0603CS 7N5 ☐-A1	7.5 @ 250MHz	G, J, K	28 @ 250MHz	4800	0.100	700
SWI0603CS 8N2 ☐-A1	8.2 @ 250MHz	G, J, K	28 @ 250MHz	4700	0.100	700
SWI0603CS 8N7 ☐-A1	8.7 @ 250MHz	G, J, K	28 @ 250MHz	4600	0.100	700
SWI0603CS 9N5 ☐-A1	9.5 @ 250MHz	G, J, K	28 @ 250MHz	5400	0.100	700
SWI0603CS 10N ☐-A1	10 @ 250MHz	G, J, K	31 @ 250MHz	4800	0.100	700
SWI0603CS 11N ☐-A1	11 @ 250MHz	G, J, K	30 @ 250MHz	4000	0.100	700
SWI0603CS 12N ☐-A1	12 @ 250MHz	G, J, K	32 @ 250MHz	4000	0.100	700
SWI0603CS 13N ☐-A1	13 @ 250MHz	G, J, K	38 @ 250MHz	3600	0.100	700
SWI0603CS 15N ☐-A1	15 @ 250MHz	G, J, K	35 @ 250MHz	4000	0.120	700
SWI0603CS 16N ☐-A1	16 @ 250MHz	G, J, K	35 @ 250MHz	3300	0.120	700
SWI0603CS 18N ☐-A1	18 @ 250MHz	G, J, K	35 @ 250MHz	3100	0.120	700
SWI0603CS 20N ☐-A1	20 @ 250MHz	G, J, K	35 @ 250MHz	3100	0.120	700
SWI0603CS 22N ☐-A1	22 @ 250MHz	G, J, K	35 @ 250MHz	3000	0.150	700
SWI0603CS 23N ☐-A1	23 @ 250MHz	G, J, K	38 @ 250MHz	2850	0.140	700
SWI0603CS 24N ☐-A1	24 @ 250MHz	G, J, K	35 @ 250MHz	2650	0.140	700
SWI0603CS 27N ☐-A1	27 @ 250MHz	G, J, K	35 @ 250MHz	2800	0.200	600
SWI0603CS 30N ☐-A1	30 @ 250MHz	G, J, K	37 @ 250MHz	2250	0.144	600
SWI0603CS 33N ☐-A1	33 @ 250MHz	G, J, K	36 @ 250MHz	2300	0.200	600
SWI0603CS 36N ☐-A1	36 @ 250MHz	G, J, K	36 @ 250MHz	2080	0.200	600
SWI0603CS 39N ☐-A1	39 @ 250MHz	G, J, K	36 @ 250MHz	2200	0.210	600
SWI0603CS 43N ☐-A1	43 @ 250MHz	G, J, K	38 @ 250MHz	2000	0.220	600
SWI0603CS 47N ☐-A1	47 @ 200MHz	G, J, K	35 @ 200MHz	2000	0.230	600
SWI0603CS 51N ☐-A1	51 @ 200MHz	G, J, K	32 @ 200MHz	1950	0.240	600
SWI0603CS 56N ☐-A1	56 @ 200MHz	G, J, K	32 @ 200MHz	1900	0.250	600
SWI0603CS 68N ☐-A1	68 @ 200MHz	G, J, K	32 @ 200MHz	1700	0.350	600
SWI0603CS 72N ☐-A1	72 @ 150MHz	G, J, K	34 @ 150MHz	1700	0.490	400
SWI0603CS 82N ☐-A1	82 @ 150MHz	G, J, K	30 @ 150MHz	1700	0.580	400
SWI0603CS R10 ☐-A1	100 @ 150MHz	G, J, K	34 @ 150MHz	1400	0.580	400
SWI0603CS R11 ☐-A1	110 @ 150MHz	G, J, K	33 @ 150MHz	1350	0.610	300
SWI0603CS R12 ☐-A1	120 @ 150MHz	G, J, K	30 @ 150MHz	1300	0.650	300
SWI0603CS R15 ☐-A1	150 @ 100MHz	G, J, K	30 @ 100MHz	990	0.850	280
SWI0603CS R18 ☐-A1	180 @ 100MHz	G, J, K	25 @ 100MHz	990	1.000	250
SWI0603CS R22 ☐-A1	220 @ 100MHz	G, J, K	25 @ 100MHz	900	1.800	250
SWI0603CS R27 ☐-A1	270 @ 100MHz	G, J, K	25 @ 100MHz	822	2.100	200
SWI0603CS R33 ☐-A1	330 @ 100MHz	J, K	25 @ 100MHz	500	2.300	150
SWI0603CS R39 ☐-A1	390 @ 100MHz	J, K	25 @ 100MHz	350	2.900	130
SWI0603CS R47 ☐-A1	470 @ 100MHz	J, K	22 @ 100MHz	350	3.780	120
SWI0603CS R56 ☐-A1	560 @ 100MHz	J, K	20 @ 100MHz	300	4.200	110
SWI0603CS R68 ☐-A1	680 @ 100MHz	J, K	18 @ 100MHz	230	4.650	100

Tolerance: B=±0.20nH S=±0.30nH G=±2% J=±5% K=±10%

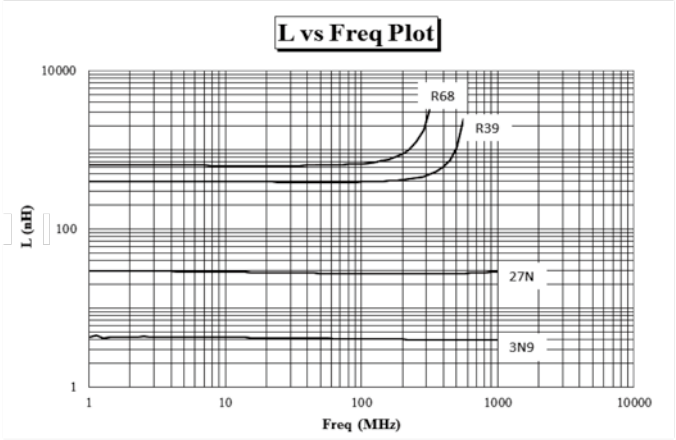
1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.
4. RDC is measured in HP-4338B milliohm meter or equivalent.
5. For 15 °C Rise.

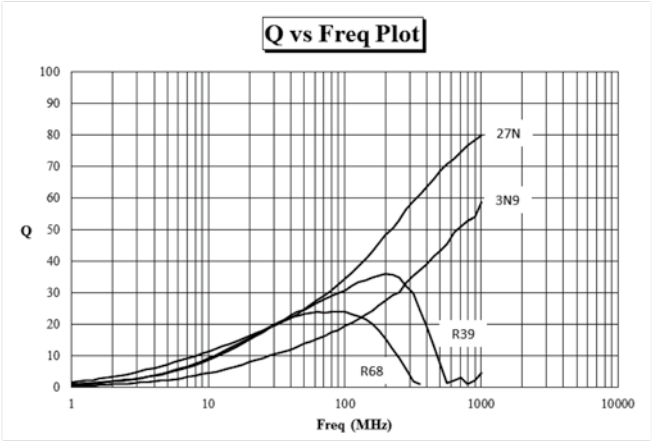
SWI0402 CT Series





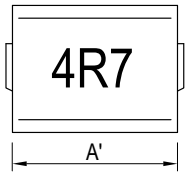
SWI0603 CS Series

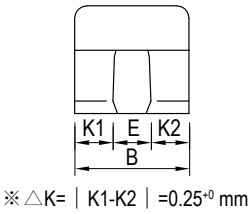


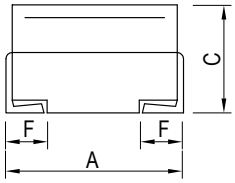


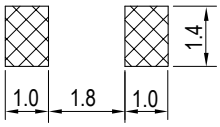
ACC SERIES 3225 / 4532

High current

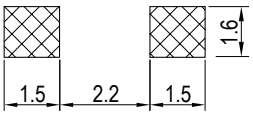








ACC3225



ACC4532

(PCB Pattern)

Unit: mm

Series	A	A'	B	C	E	F
ACC3225	3.20±0.40	2.90±0.20	2.50±0.20	2.20±0.20	1.00±0.20	$0.60^{+0.30}_{-0.00}$
ACC4532	4.50±0.30	4.20±0.20	3.20±0.20	3.20±0.20	1.20	$1.00^{+0.30}_{-0.00}$

Features

- Wide range of inductance
- High Q
- High Current handling
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +150°C (including self-temperature rise)

compliant RoHS

Application

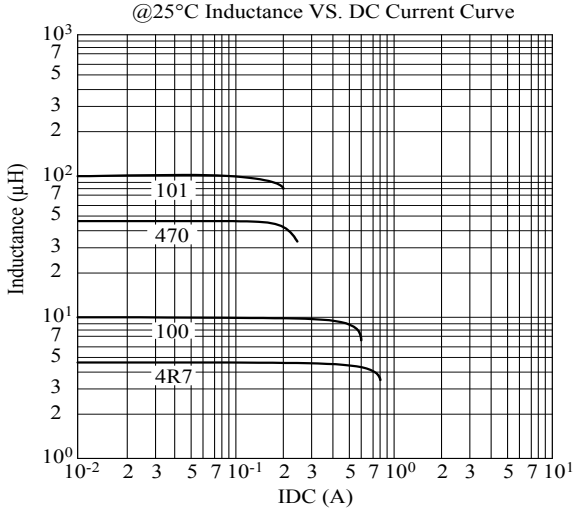
- Telematics
- Infotainment

ACC3225 Series								
DWG. No.	Inductance (µH)	Tolerance	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	Isat (A) typ.	Irms (A) max.
ACC3225R10□2B-□□□	0.10	M	5	25.200	550	0.050	4.000	2.800
ACC3225R15□2B-□□□	0.15	M	5	25.200	500	0.060	3.400	2.600
ACC3225R22□2B-□□□	0.22	M	5	25.200	440	0.070	3.000	2.400
ACC3225R33□2B-□□□	0.33	M	5	25.200	320	0.080	2.300	2.200
ACC3225R47□2B-□□□	0.47	M	5	25.200	230	0.095	1.850	1.850
ACC3225R68□2B-□□□	0.68	M	5	25.200	130	0.110	1.500	1.700
ACC32251R0□2B-□□□	1.00	K	8	7.960	100	0.156	1.350	1.450
ACC32251R5□2B-□□□	1.50	K	8	7.960	80	0.195	1.100	1.350
ACC32252R2□2B-□□□	2.20	K	8	7.960	65	0.250	1.000	1.150
ACC32253R3□2B-□□□	3.30	K	8	7.960	55	0.320	0.750	0.950
ACC32254R7□2B-□□□	4.70	J, K	8	7.960	46	0.380	0.700	0.900
ACC32256R8□2B-□□□	6.80	J, K	8	7.960	35	0.580	0.500	0.700
ACC3225100□2B-□□□	10.00	J, K	15	2.520	28	0.890	0.450	0.600
ACC3225120□2B-□□□	12.00	J, K	15	2.520	26	1.100	0.400	0.500
ACC3225150□2B-□□□	15.00	J, K	15	2.520	25	1.450	0.350	0.450
ACC3225220□2B-□□□	22.00	J, K	15	2.520	20	2.000	0.300	0.370
ACC3225330□2B-□□□	33.00	J, K	15	2.520	15	2.800	0.250	0.300
ACC3225470□2B-□□□	47.00	J, K	20	2.520	11	4.800	0.205	0.270
ACC3225680□2B-□□□	68.00	J, K	20	2.520	10	6.900	0.170	0.220
ACC3225101□2B-□□□	100.00	J, K	20	0.796	8	9.000	0.150	0.180
ACC4532 Series								
DWG. No.	Inductance (µH)	Tolerance	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	Isat (A) typ.	Irms (A) max.
ACC45321R0□2□-□□□	1.00	K	10	7.960	180.0	0.100	2.25	2.30
ACC45321R5□2□-□□□	1.50	K	10	7.960	110.0	0.120	1.85	1.90
ACC45322R2□2□-□□□	2.20	K	10	7.960	70.0	0.170	1.55	1.60
ACC45323R3□2□-□□□	3.30	K	10	7.960	35.0	0.210	1.25	1.50
ACC45324R7□2□-□□□	4.70	K	10	7.960	30.0	0.260	1.05	1.30
ACC45326R8□2□-□□□	6.80	K	10	7.960	25.0	0.320	0.90	1.20
ACC4532100□2□-□□□	10.00	K	20	2.520	20.0	0.480	0.70	1.00
ACC4532150□2□-□□□	15.00	K	20	2.520	14.0	0.610	0.60	0.75
ACC4532220□2□-□□□	22.00	K	20	2.520	12.0	0.900	0.50	0.62
ACC4532330□2□-□□□	33.00	K	20	2.520	10.0	1.150	0.40	0.55
ACC4532470□2□-□□□	47.00	K	20	2.520	8.0	1.650	0.30	0.45
ACC4532680□2□-□□□	68.00	K	20	2.520	7.0	2.500	0.26	0.35
ACC4532101□2□-□□□	100.00	K	30	0.796	5.5	4.000	0.22	0.28
ACC4532151□2□-□□□	150.00	K	30	0.796	4.5	6.000	0.19	0.22
ACC4532221□2□-□□□	220.00	K	30	0.796	3.7	7.700	0.17	0.20
ACC4532331□2□-□□□	330.00	K	30	0.796	3.1	11.000	0.14	0.17
ACC4532471□2□-□□□	470.00	K	30	0.796	2.7	16.000	0.12	0.14
ACC4532681□2□-□□□	680.00	K	30	0.796	2.2	24.000	0.10	0.12
ACC4532102□2□-□□□	1000.00	K	20	0.252	2.0	40.000	0.08	0.09

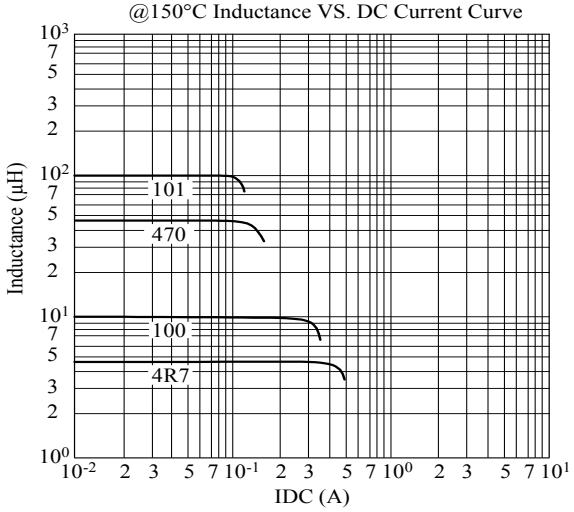
1. Electrical specifications at 25°C
2. Isat base on ΔL/L0A=10% typ.
3. Irms base on temp. rise 40°C max.
4. Tolerance: J=±5% K=±10% M=±20%

ACC3225 Series

@25°C Inductance VS. DC Current Curve

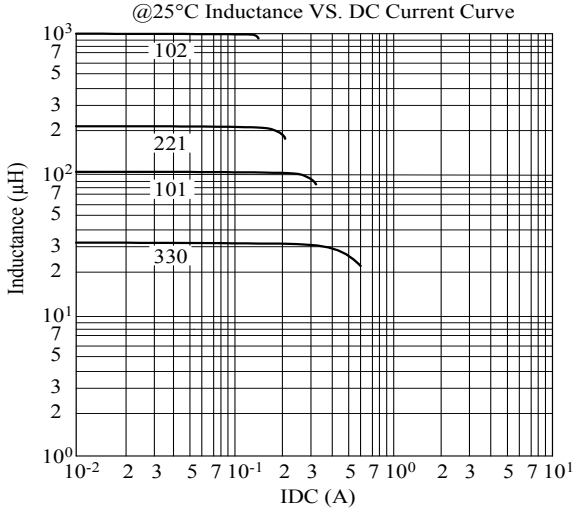


@150°C Inductance VS. DC Current Curve

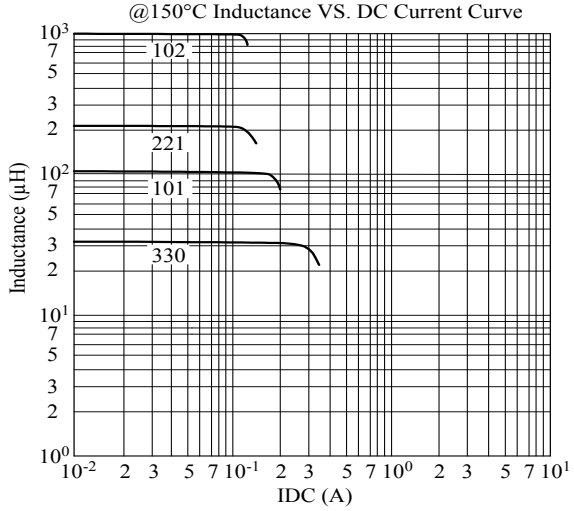


ACC4532 Series

@25°C Inductance VS. DC Current Curve



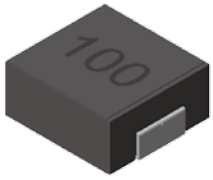
@150°C Inductance VS. DC Current Curve

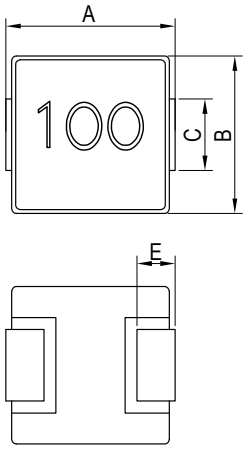


MHE SERIES

0630-T / 0640-T / 1040-T

Molded - High Current





Unit: mm

Series	A	B	C	D	E
MHE0630-T	7.10±0.30	6.60±0.30	3.00±0.30	3.00 max.	1.60±0.50
MHE0640-T	7.10±0.30	6.60±0.30	3.00±0.30	4.00 max.	1.60±0.50
MHE1040-T	11.50 max.	10.00±0.30	2.80±0.50	4.00 max.	2.00±0.50

Features

- Metal composite wire-wound construction
- Large current handling capability
- Lower RDC
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +155°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- LED lighting
- Engine Control Module
- ADAS
- BCM
- Other power suppliers

MHE0630-T Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHE0630R33MTB-□□□	0.33±20%	3.0	3.5	30.0	21.0
MHE0630R47MTB-□□□	0.47±20%	3.5	4.1	25.0	18.0
MHE0630R68MTB-□□□	0.68±20%	4.8	5.3	22.0	16.0
MHE0630R82MTB-□□□	0.82±20%	5.0	5.5	18.0	15.0
MHE06301R0MTB-□□□	1.00±20%	6.7	7.4	16.0	13.0
MHE06301R5MTB-□□□	1.50±20%	10.5	12.0	13.0	11.0
MHE06302R2MTB-□□□	2.20±20%	13.5	15.0	12.0	9.0
MHE06303R3MTB-□□□	3.30±20%	18.0	22.0	9.5	9.0
MHE06304R7MTB-□□□	4.70±20%	28.0	33.0	7.5	7.0
MHE06305R6MTB-□□□	5.60±20%	39.0	42.0	7.0	5.5
MHE06306R8MTB-□□□	6.80±20%	43.0	50.0	6.0	5.0
MHE0630100MTB-□□□	10.0±20%	62.0	68.0	5.5	4.5
MHE0630150MTB-□□□	15.0±20%	110.0	125.0	3.5	3.5
MHE0630220MTB-□□□	22.0±20%	140.0	160.0	3.0	3.0
MHE0630330MTB-□□□	33.0±20%	170.0	185.0	2.5	2.5

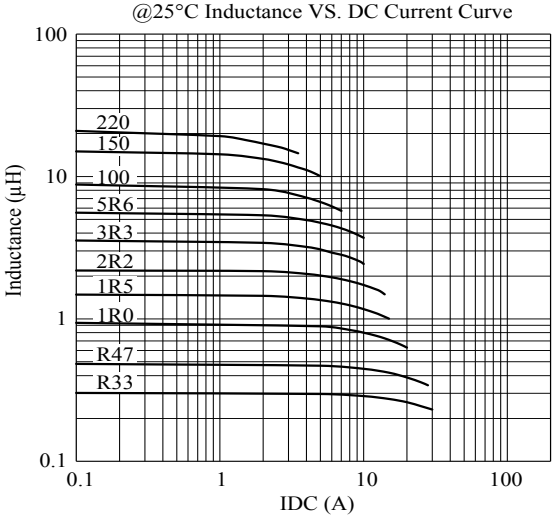
MHE0640-T Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHE06401R0MTB-□□□	1.0±20%	6.0	6.5	14.0	12.0
MHE06401R5MTB-□□□	1.5±20%	6.2	7.0	12.0	10.0
MHE06402R2MTB-□□□	2.2±20%	9.0	10.0	11.0	9.0
MHE06403R3MTB-□□□	3.3±20%	17.0	20.0	10.0	7.0
MHE06404R7MTB-□□□	4.7±20%	26.0	30.0	9.0	6.5
MHE06405R6MTB-□□□	5.6±20%	28.5	33.0	8.0	6.3
MHE06406R8MTB-□□□	6.8±20%	42.0	45.0	7.0	5.5
MHE06408R2MTB-□□□	8.2±20%	45.0	50.0	6.0	5.0
MHE0640100MTB-□□□	10.0±20%	49.0	55.0	5.0	4.5
MHE0640220MTB-□□□	22.0±20%	120.0	130.0	3.5	3.0
MHE0640330MTB-□□□	33.0±20%	180.0	200.0	2.7	3.2
MHE0640470MTB-□□□	47.0±20%	220.0	240.0	2.3	3.0
MHE0640680MTB-□□□	68.0±20%	260.0	290.0	2.0	1.5

MHE1040-T Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHE10402R2MTB-□□□	2.20±20%	6.50	7.00	18.00	15.00
MHE10403R3MTB-□□□	3.30±20%	9.50	10.50	15.00	12.00
MHE10404R7MTB-□□□	4.70±20%	12.50	14.00	13.00	11.00
MHE10405R6MTB-□□□	5.60±20%	15.80	17.80	12.00	10.00
MHE10406R8MTB-□□□	6.80±20%	19.00	21.00	10.00	9.00
MHE1040100MTB-□□□	10.0±20%	29.80	32.80	8.50	7.50
MHE1040150MTB-□□□	15.0±20%	38.00	43.00	6.50	6.50
MHE1040220MTB-□□□	22.0±20%	54.50	60.00	5.00	6.00
MHE1040330MTB-□□□	33.0±20%	77.50	85.00	4.50	5.00
MHE1040470MTB-□□□	47.0±20%	120.00	130.00	3.00	4.50
MHE1040560MTB-□□□	56.0±20%	140.00	155.00	2.80	4.00
MHE1040680MTB-□□□	68.0±20%	155.00	170.00	2.50	3.50
MHE1040820MTB-□□□	82.0±20%	180.00	200.00	2.20	3.00
MHE1040101MTB-□□□	100.0±20%	280.00	300.00	2.00	2.50

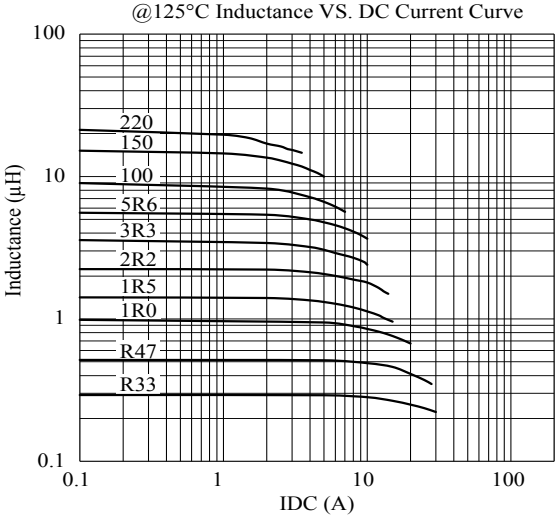
1. Electrical specifications at 25°C
2. Inductance Test Condition: 500kHz / 0.25V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on Temp. rise 40°C typ.
5. Rated Voltage: 50V max.

MHE0630-T Series

@25°C Inductance VS. DC Current Curve

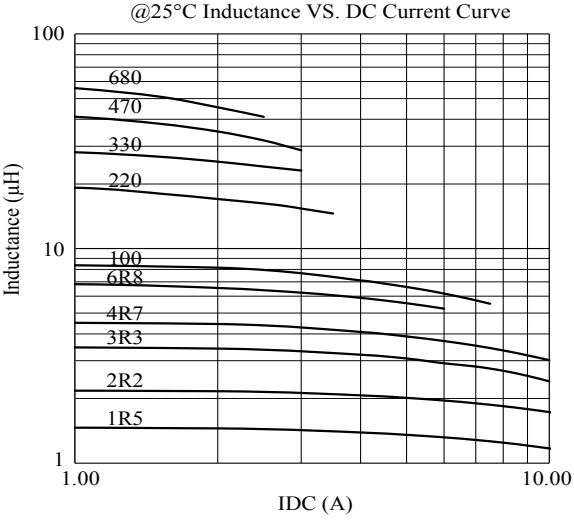


@125°C Inductance VS. DC Current Curve

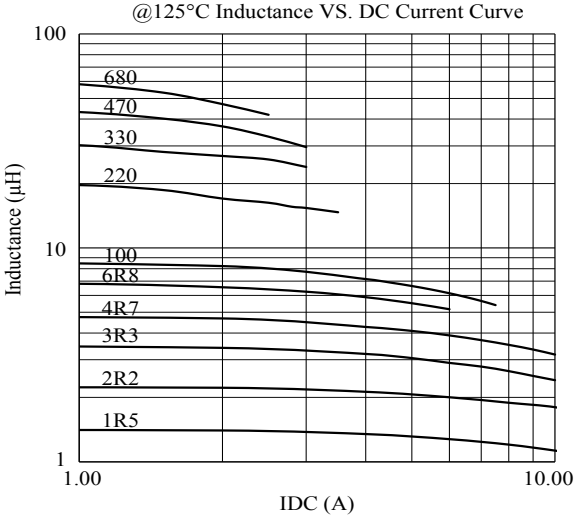


MHE0640-T Series

@25°C Inductance VS. DC Current Curve

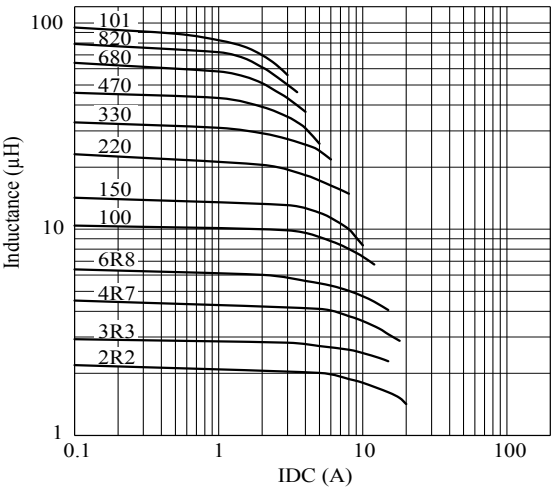


@125°C Inductance VS. DC Current Curve

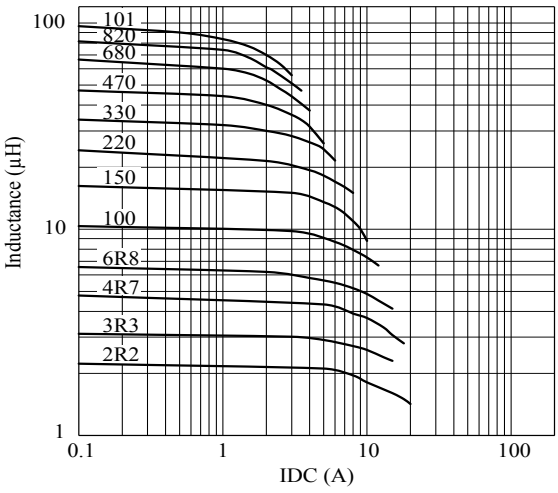


MHE1040-T Series

@25°C Inductance VS. DC Current Curve



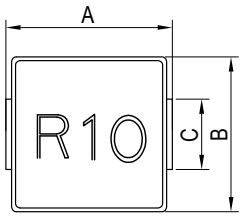
@125°C Inductance VS. DC Current Curve

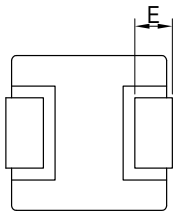


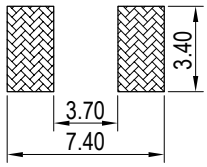
MHE SERIES

0630-Q / 1040-Q

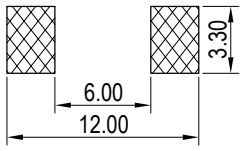
Molded - High Saturation Current







MHE0630-Q



MHE1040-Q

(PCB Pattern)

Unit: mm

Series	A	B	C	D	E
MHE0630-Q	7.10±0.30	6.60±0.30	3.00±0.30	3.00 max.	1.60±0.50
MHE1040-Q	11.50 max.	10.00±0.30	2.80±0.50	4.00 max.	2.00±0.50

Features

- Metal composite wire-wound construction
- Handles high transient current spikes without saturation
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +155°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

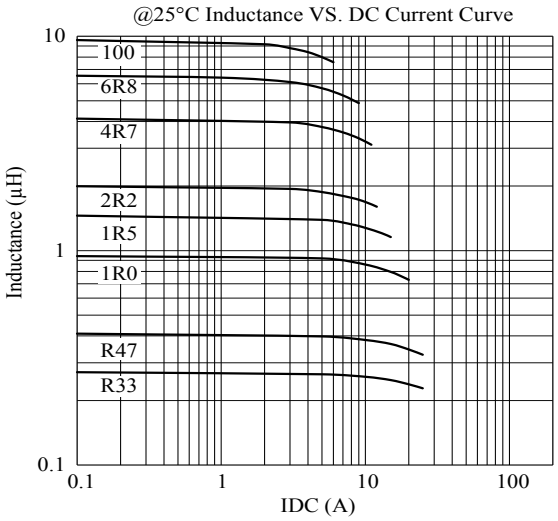
- LED lighting
- Engine Control Module
- ADAS
- BCM
- Other power suppliers

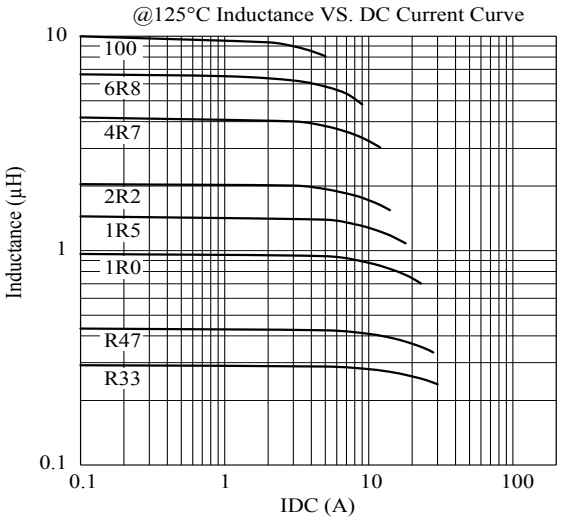
MHE0630-Q Series							
DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
				typ.	max.		
MHE0630R10MQB-□□□	0.10±20%	14	200	1.5	1.7	70.0	34.0
MHE0630R22MQB-□□□	0.22±20%	12	145	2.5	2.8	50.0	25.5
MHE0630R33MQB-□□□	0.33±20%	12	140	3.5	3.9	35.0	21.5
MHE0630R47MQB-□□□	0.47±20%	10	80	4.0	4.2	30.0	21.0
MHE0630R56MQB-□□□	0.56±20%	12	78	5.0	5.5	28.0	18.0
MHE0630R68MQB-□□□	0.68±20%	8	75	5.1	5.5	28.0	17.5
MHE0630R82MQB-□□□	0.82±20%	8	68	6.7	7.8	26.0	14.0
MHE06301R0MQB-□□□	1.00±20%	30	58	9.0	10.0	25.0	12.0
MHE06301R5MQB-□□□	1.50±20%	30	45	14.0	15.0	18.0	10.0
MHE06302R2MQB-□□□	2.20±20%	30	30	18.0	20.0	14.0	10.0
MHE06303R3MQB-□□□	3.30±20%	24	25	28.0	30.0	13.5	8.0
MHE06304R7MQB-□□□	4.70±20%	21	22	37.0	40.0	11.0	6.0
MHE06305R6MQB-□□□	5.60±20%	21	20	52.0	60.0	10.5	5.8
MHE06306R8MQB-□□□	6.80±20%	26	17	54.0	60.0	9.0	5.5
MHE06308R2MQB-□□□	8.20±20%	26	12	64.0	68.0	7.5	5.0
MHE0630100MQB-□□□	10.0±20%	26	10	102.0	105.0	7.0	4.0

MHE1040-Q Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHE1040R68MQ□-□□□	0.68±20%	1.90	2.40	35.00	23.00
MHE10401R0MQ□-□□□	1.00±20%	3.00	3.30	31.00	18.00
MHE10401R5MQ□-□□□	1.50±20%	3.80	4.20	27.00	16.00
MHE10402R2MQ□-□□□	2.20±20%	6.70	7.00	24.00	12.00
MHE10403R3MQ□-□□□	3.30±20%	10.80	11.80	19.00	10.00
MHE10404R7MQ□-□□□	4.70±20%	15.00	16.50	17.00	9.50
MHE10405R6MQ□-□□□	5.60±20%	17.60	19.30	16.00	8.50
MHE10406R8MQ□-□□□	6.80±20%	21.20	23.30	13.00	8.00
MHE10408R2MQ□-□□□	8.20±20%	26.00	29.00	10.00	7.00
MHE1040100MQ□-□□□	10.0±20%	33.20	36.50	9.00	6.80
MHE1040150MQ□-□□□	15.0±20%	40.00	45.00	7.00	6.25
MHE1040220MQ□-□□□	22.0±20%	60.00	66.00	5.50	5.00
MHE1040330MQ□-□□□	33.0±20%	85.00	92.00	5.00	4.40
MHE1040470MQ□-□□□	47.0±20%	130.00	145.00	3.50	4.00

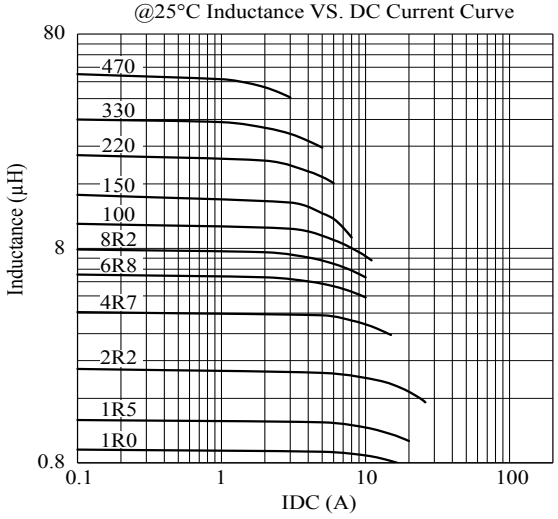
1. Electrical specifications at 25°C
2. Inductance Test Condition: 500kHz / 0.25V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on Temp. rise 40°C typ.
5. Rated Voltage: 50V max.

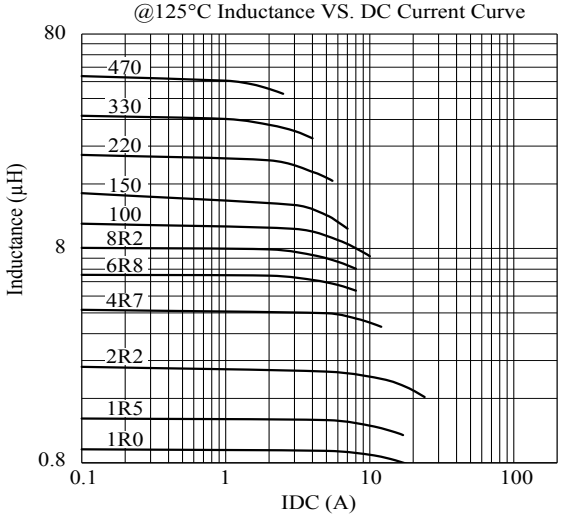
MHE0630-Q Series





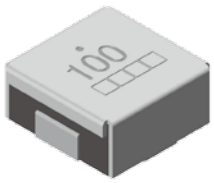
MHE1040-Q Series

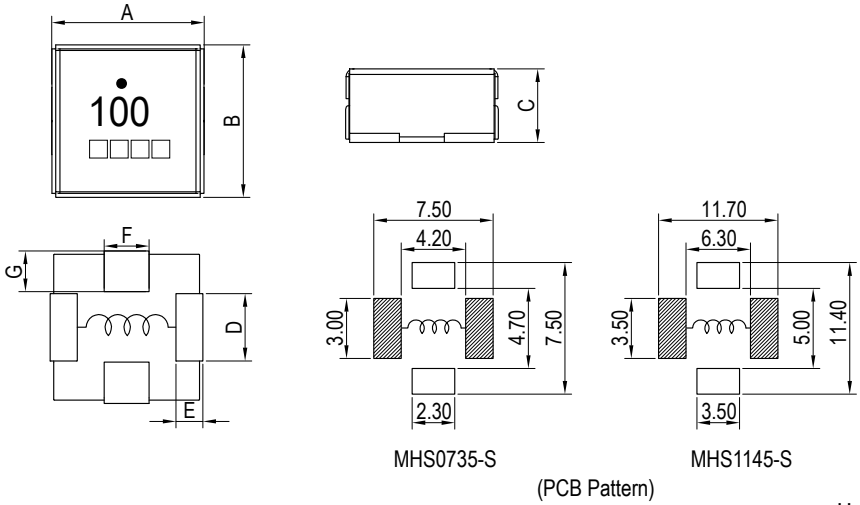




MHS SERIES 0735-S / 1145-S

Metal Cover Molded





Unit: mm

Series	A	B	C	D	E	F	G
MHS0735-S	7.20±0.30	7.20±0.30	3.50 max.	2.80±0.30	1.50±0.30	2.10±0.30	1.20±0.30
MHS1145-S	11.50 max.	10.7±0.50	4.50 max.	2.80±0.50	2.00±0.50	3.00±0.30	2.50±0.50

Features

- Metal E-Shielded
- Large current handling capability
- Low RDC
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +155°C (including self-temperature rise)

Application

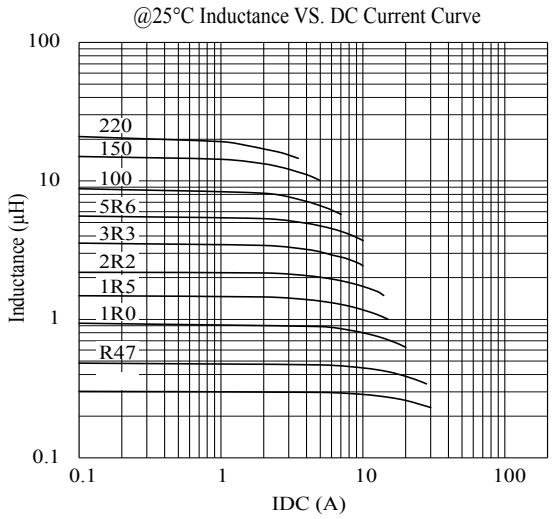
- LED lighting
- Engine Control Module
- DC/DC converters
- Noise suppression for motors
- HVAC

MHS0735-S Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHS0735R33MS□-□□□	0.33±20%	3.0	3.5	30.0	21.0
MHS0735R47MS□-□□□	0.47±20%	3.5	4.1	25.0	18.0
MHS0735R68MS□-□□□	0.68±20%	4.8	5.3	22.0	16.0
MHS0735R82MS□-□□□	0.82±20%	5.0	5.5	18.0	15.0
MHS07351R0MS□-□□□	1.00±20%	6.7	7.4	16.0	13.0
MHS07351R5MS□-□□□	1.50±20%	10.5	12.0	13.0	11.0
MHS07352R2MS□-□□□	2.20±20%	13.5	15.0	12.0	9.0
MHS07353R3MS□-□□□	3.30±20%	18.0	22.0	9.5	9.0
MHS07354R7MS□-□□□	4.70±20%	28.0	33.0	7.5	7.0
MHS07355R6MS□-□□□	5.60±20%	39.0	42.0	7.0	5.5
MHS07356R8MS□-□□□	6.80±20%	43.0	50.0	6.0	5.0
MHS0735100MS□-□□□	10.0±20%	62.0	68.0	5.5	4.5
MHS0735150MS□-□□□	15.0±20%	110.0	125.0	3.5	3.5
MHS0735220MS□-□□□	22.0±20%	140.0	160.0	3.0	3.0
MHS0735330MS□-□□□	33.0±20%	170.0	185.0	2.5	2.5

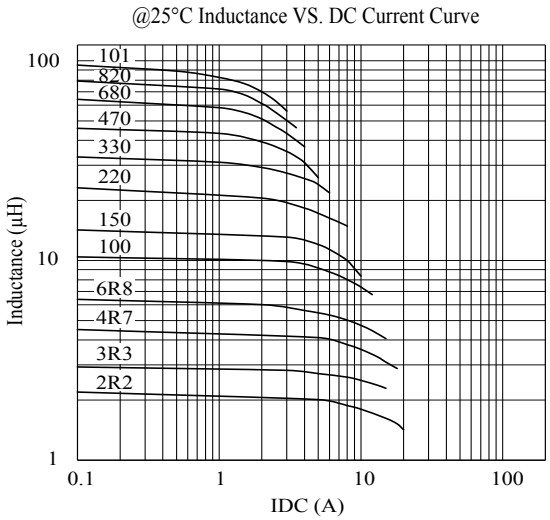
MHS1145-S Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHS11452R2MSB-□□□	2.20±20%	6.50	7.00	18.00	15.00
MHS11453R3MSB-□□□	3.30±20%	9.50	10.50	15.00	12.00
MHS11454R7MSB-□□□	4.70±20%	12.50	14.00	13.00	11.00
MHS11455R6MSB-□□□	5.60±20%	15.80	17.80	12.00	10.00
MHS11456R8MSB-□□□	6.80±20%	19.00	21.00	10.00	9.00
MHS1145100MSB-□□□	10.0±20%	29.80	32.80	8.50	7.50
MHS1145150MSB-□□□	15.0±20%	38.00	43.00	6.50	6.50
MHS1145220MSB-□□□	22.0±20%	54.50	60.00	5.00	6.00
MHS1145330MSB-□□□	33.0±20%	77.50	85.00	4.50	5.00
MHS1145470MSB-□□□	47.0±20%	120.00	130.00	3.00	4.50
MHS1145560MSB-□□□	56.0±20%	140.00	155.00	2.80	4.00
MHS1145680MSB-□□□	68.0±20%	155.00	170.00	2.50	3.50
MHS1145820MSB-□□□	82.0±20%	180.00	200.00	2.20	3.00
MHS1145101MSB-□□□	100.0±20%	280.00	300.00	2.00	2.50

1. Electrical specifications at 25°C
2. Inductance Test Condition: 500kHz / 0.25V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on Temp. rise 40°C typ.
5. Rated Voltage: 50V max.

MHS0735 Series



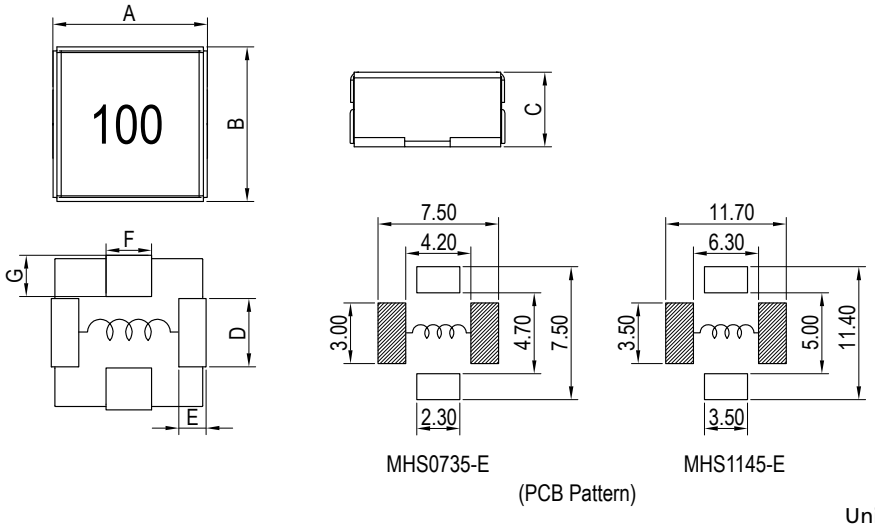
MHS1145 Series



MHS SERIES

0735-E / 1145-E

Metal Cover Molded - High Saturation



Unit: mm

Series	A	B	C	D	E	F	G
MHS0735-E	7.20±0.30	7.20±0.30	3.50 max.	2.80±0.30	1.50±0.30	2.10±0.30	1.20±0.30
MHS1145-E	11.50 max.	10.7±0.50	4.50 max.	2.80±0.50	2.00±0.50	3.00±0.30	2.50±0.50

Features

- Metal composite wire-wound construction
- Handles high transient current spikes without saturation
- Lower RDC
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +155°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

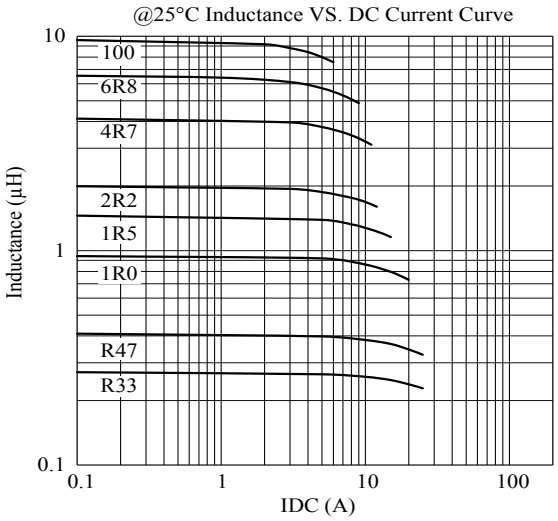
- LED lighting
- Engine Control Module
- DC/DC converters
- Noise suppression for motors
- HVAC

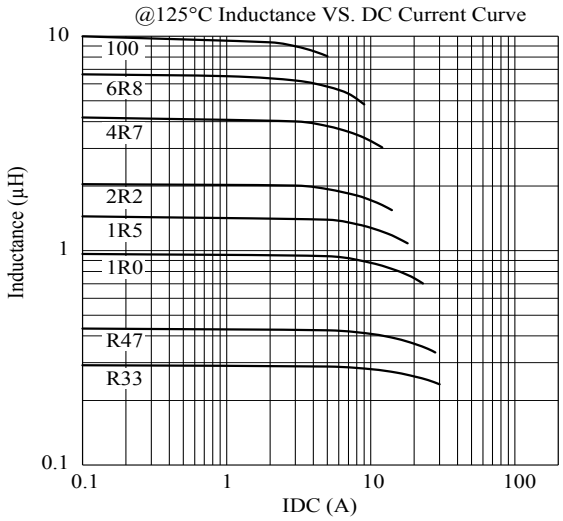
HS0735-S Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHS0735R10MEB-□□□	0.10±20%	1.5	1.7	70.0	34.0
MHS0735R22MEB-□□□	0.22±20%	2.5	2.8	50.0	25.5
MHS0735R33MEB-□□□	0.33±20%	3.5	3.9	35.0	21.5
MHS0735R47MEB-□□□	0.47±20%	4.0	4.2	30.0	21.0
MHS0735R56MEB-□□□	0.56±20%	5.0	5.5	28.0	18.0
MHS0735R68MEB-□□□	0.68±20%	5.1	5.5	28.0	17.5
MHS0735R82MEB-□□□	0.82±20%	6.7	7.8	26.0	14.0
MHS07351R0MEB-□□□	1.00±20%	9.0	10.0	25.0	12.0
MHS07351R5MEB-□□□	1.50±20%	14.0	15.0	18.0	10.0
MHS07352R2MEB-□□□	2.20±20%	18.0	20.0	14.0	10.0
MHS07353R3MEB-□□□	3.30±20%	28.0	30.0	13.5	8.0
MHS07354R7MEB-□□□	4.70±20%	37.0	40.0	11.0	6.0
MHS07355R6MEB-□□□	5.60±20%	52.0	60.0	10.5	5.8
MHS07356R8MEB-□□□	6.80±20%	54.0	60.0	9.0	5.5
MHS07358R2MEB-□□□	8.20±20%	64.0	68.0	7.5	5.0
MHS0735100MEB-□□□	10.0±20%	102.0	105.0	7.0	4.0

HS1145-S Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MHS11451R0MEB-□□□	1.00±20%	3.00	3.30	31.00	18.00
MHS11451R5MEB-□□□	1.50±20%	3.80	4.20	27.00	16.00
MHS11452R2MEB-□□□	2.20±20%	6.70	7.00	24.00	12.00
MHS11453R3MEB-□□□	3.30±20%	10.80	11.80	19.00	10.00
MHS11454R7MEB-□□□	4.70±20%	15.00	16.50	17.00	9.50
MHS11455R6MEB-□□□	5.60±20%	17.60	19.30	16.00	8.50
MHS11456R8MEB-□□□	6.80±20%	21.20	23.30	13.00	8.00
MHS11458R2MEB-□□□	8.20±20%	26.00	29.00	10.00	7.00
MHS1145100MEB-□□□	10.00±20%	33.20	36.50	9.00	6.80
MHS1145150MEB-□□□	15.00±20%	40.00	45.00	7.00	6.25
MHS1145220MEB-□□□	22.00±20%	60.00	66.00	5.50	5.00
MHS1145330MEB-□□□	33.00±20%	85.00	92.00	5.00	4.40
MHS1145470MEB-□□□	47.00±20%	130.00	145.00	3.50	4.00
MHS1145680MEB-□□□	68.00±20%	155.00	170.00	3.00	3.50

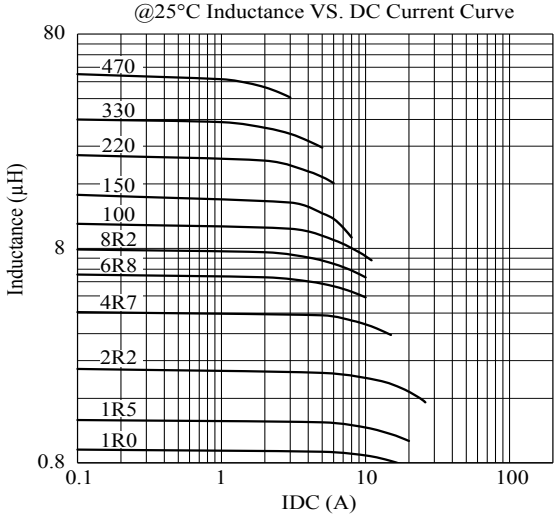
1. Electrical specifications at 25°C
2. Inductance Test Condition: 500kHz / 0.25V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on Temp. rise 40°C typ.
5. Rated Voltage: 50V max.

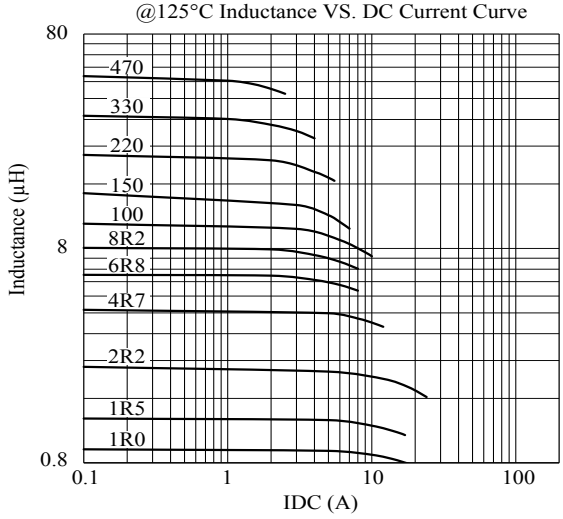
MHS0735-E Series





MHS1145-E Series

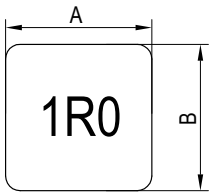


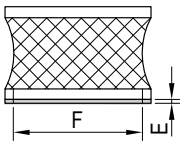


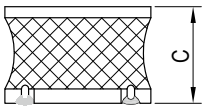
MSN SERIES

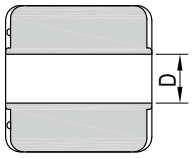
3030 / 4030 / 5030 / 5040 / 6045

Semi-shielded









For PCB pattern information, please see page 24

Unit: mm

Series	A	B	C	D	E	F
MSN3030	3.00±0.20	3.00±0.20	3.00 max.	1.00 typ.	0.12 min.	2.80±0.20
MSN4030	4.00±0.20	4.00±0.20	3.00 max.	1.80 typ.	0.10 min.	3.50±0.20
MSN5030	5.00±0.2	5.00±0.2	3.00 max.	1.80 typ.	0.20 min.	4.00±0.20
MSN5040	5.00±0.20	5.00±0.20	4.00 max.	1.50 typ.	-	-
MSN6045	6.00±0.20	6.00±0.20	4.70 max.	2.40 typ.	0.30 min.	5.00±0.20

Features

- Magnetic resin coating onto coil
- Semi-shielded effect to reduce leakage field
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- Telematics
- Infotainment
- BCM

MSN3030 Series								
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
			L	Q				
MSN30301R0YSB-□□□	1.00±30%	13	100k/0.1V	7.96M	122	55.0	5.00	2.60
MSN30302R2YSB-□□□	2.20±30%	14	100k/0.1V	7.96M	66	85.0	3.50	2.10
MSN30304R7YSB-□□□	4.70±30%	15	100k/0.1V	7.96M	37	200.0	2.40	1.40
MSN3030100MSB-□□□	10.00±20%	20	100k/0.1V	2.52M	25	450.0	1.60	0.90
MSN3030220MSB-□□□	22.00±20%	25	100k/0.1V	2.52M	16	1100.0	1.10	0.55
MSN3030470MSB-□□□	47.00±20%	27	100k/0.1V	2.52M	10	2050.0	0.75	0.35
MSN3030101MSB-□□□	100.00±20%	33	100k/0.1V	0.796M	7	5000.0	0.50	0.25

MSN4030 Series								
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
			L	Q				
MSN40301R0YSB-□□□	1.00±30%	15	100k/0.1V	7.96M	100	20.0	7.80	5.50
MSN40302R2YSB-□□□	2.20±30%	14	100k/0.1V	7.96M	47	30.0	4.90	4.30
MSN40303R3YSB-□□□	3.30±30%	13	100k/0.1V	7.96M	39	50.0	4.00	3.40
MSN40304R7YSB-□□□	4.70±30%	13	100k/0.1V	7.96M	31	60.0	3.50	3.10
MSN4030100MSB-□□□	10.00±20%	17	100k/0.1V	2.52M	20	180.0	2.20	1.80
MSN4030220MSB-□□□	22.00±20%	18	100k/0.1V	2.52M	13	330.0	1.50	1.20
MSN4030470MSB-□□□	47.00±20%	19	100k/0.1V	2.52M	8	650.0	1.05	0.85
MSN4030101MSB-□□□	100.00±20%	26	100k/0.1V	0.796M	7	1450.0	0.70	0.55

MSN5030 Series								
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
			L	Q				
MSN5030R47YSB-□□□	0.47±30%	14.0	100k/0.1V	7.96M	171.0	12.0	10.00	7.00
MSN50301R0YSB-□□□	1.00±30%	14.0	100k/0.1V	7.96M	124.0	18.0	7.20	5.00
MSN50301R5YSB-□□□	1.50±30%	13.0	100k/0.1V	7.96M	67.0	26.0	6.40	4.20
MSN50302R2YSB-□□□	2.20±30%	14.0	100k/0.1V	7.96M	57.0	33.0	4.90	3.70
MSN50304R7YSB-□□□	4.70±30%	13.0	100k/0.1V	7.96M	39.0	53.0	3.50	2.70
MSN5030100MSB-□□□	10.00±20%	18.0	100k/0.1V	2.52M	24.0	105.0	2.10	1.70
MSN5030150MSB-□□□	15.00±20%	19.0	100k/0.1V	2.52M	20.0	190.0	1.80	1.50
MSN5030220MSB-□□□	22.00±20%	14.0	100k/0.1V	2.52M	15.0	220.0	1.40	1.30
MSN5030470MSB-□□□	47.00±20%	16.0	100k/0.1V	2.52M	10.0	450.0	0.95	0.80
MSN5030101MSB-□□□	100.00±20%	30.0	100k/0.1V	0.796M	7.0	1400.0	0.65	0.45

MSN5040 Series						
DWG. No.	Inductance (μH)	Test Freq. (Hz)	SRF (MHz) typ.	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
MSN50401R5YSB-□□□	1.50±30%	100k/1V	85.0	18.0	7.00	5.20
MSN50402R2YSB-□□□	2.20±30%	100k/1V	55.0	20.0	5.00	4.50
MSN50403R3MSB-□□□	3.30±20%	100k/1V	45.0	26.0	4.50	4.00
MSN50404R7MSB-□□□	4.70±20%	100k/1V	40.0	35.0	3.80	3.50
MSN50406R8MSB-□□□	6.80±20%	100k/1V	30.0	59.0	3.20	2.60
MSN50408R2MSB-□□□	8.20±20%	100k/1V	25.0	65.0	2.80	2.40
MSN5040100MSB-□□□	10.00±20%	100k/1V	22.0	67.0	2.60	2.30
MSN5040150MSB-□□□	15.00±20%	100k/1V	20.0	96.0	2.20	2.00
MSN5040220MSB-□□□	22.00±20%	100k/1V	17.0	151.0	1.80	1.60
MSN5040270MSB-□□□	27.00±20%	100k/1V	15.0	198.0	1.70	1.40
MSN5040330MSB-□□□	33.00±20%	100k/1V	13.0	216.0	1.40	1.30
MSN5040470MSB-□□□	47.00±20%	100k/1V	10.0	320.0	1.30	1.10

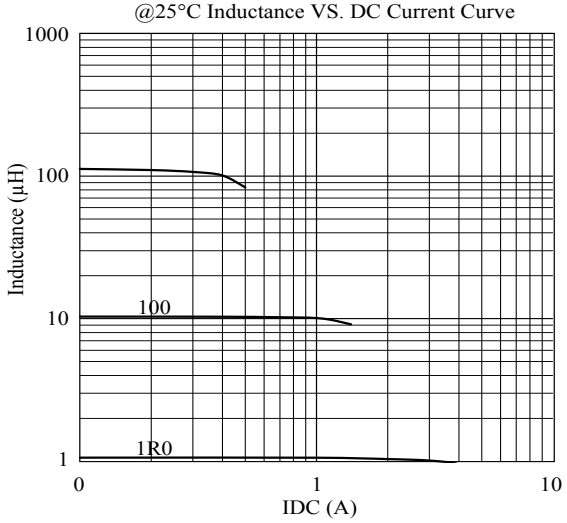
• All specifications are subject to change without notice.

MSN6045 Series									
DWG. No.	Inductance (µH)	Q ref.	Test Freq. (Hz)		RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms (A) typ.
			L	Q	typ.	max.			
MSN6045R55YSB-□□□	0.55±30%	19.0	100k/0.1V	7.96M	4.80	6.00	135	18.00	7.00
MSN60451R0YSB-□□□	1.00±30%	17.0	100k/0.1V	7.96M	7.30	9.00	80	14.50	6.50
MSN60451R5YSB-□□□	1.50±30%	17.0	100k/0.1V	7.96M	12.90	15.00	55	11.00	5.00
MSN60452R2YSB-□□□	2.20±30%	17.0	100k/0.1V	7.96M	17.00	23.00	50	9.50	4.40
MSN60453R3YSB-□□□	3.30±30%	20.0	100k/0.1V	7.96M	23.00	30.00	40	8.00	4.00
MSN60454R7YSB-□□□	4.70±30%	20.0	100k/0.1V	7.96M	30.00	35.00	30	7.00	3.60
MSN6045100MSB-□□□	10.00±20%	20.0	100k/0.1V	2.52M	41.00	50.00	20	4.00	2.60
MSN6045220MSB-□□□	22.00±20%	24.0	100k/0.1V	2.52M	121.00	144.00	13	2.50	1.70
MSN6045330MSB-□□□	33.00±20%	24.0	100k/0.1V	2.52M	170.00	211.00	10	2.20	1.50
MSN6045470MSB-□□□	47.00±20%	23.0	100k/0.1V	2.52M	224.00	305.00	8	1.90	1.00
MSN6045680MSB-□□□	68.00±20%	23.0	100k/0.1V	2.52M	316.00	400.00	7	1.60	0.90
MSN6045101MSB-□□□	100.00±20%	23.0	100k/0.1V	0.796M	484.00	540.00	6	1.20	0.72

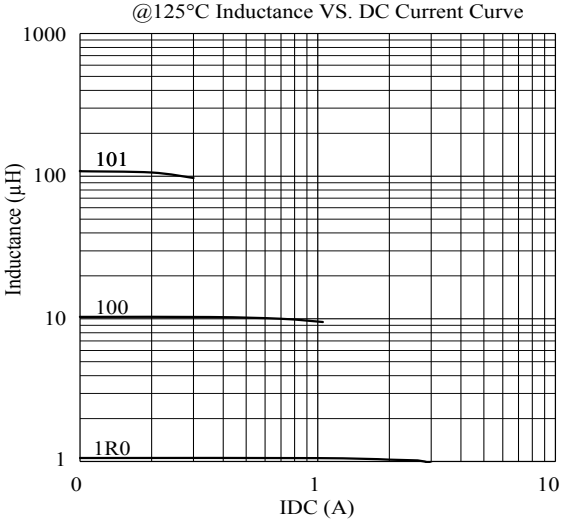
1. Electrical specifications at 25°C
2. Isat base on ΔL/L0A=30% typ.
3. Irms base on Temp. rise 40°C typ.

MSN3030 Series

@25°C Inductance VS. DC Current Curve

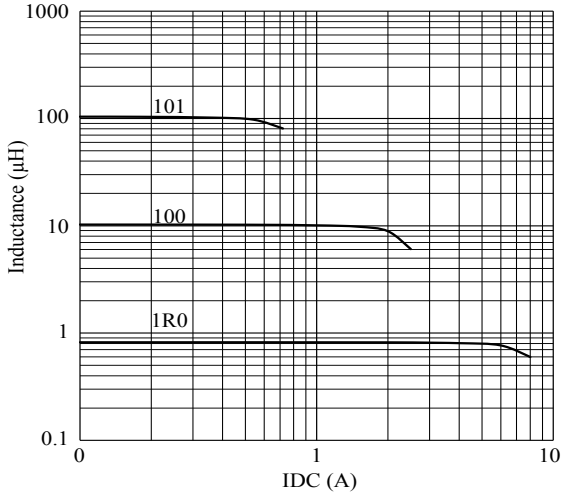


@125°C Inductance VS. DC Current Curve

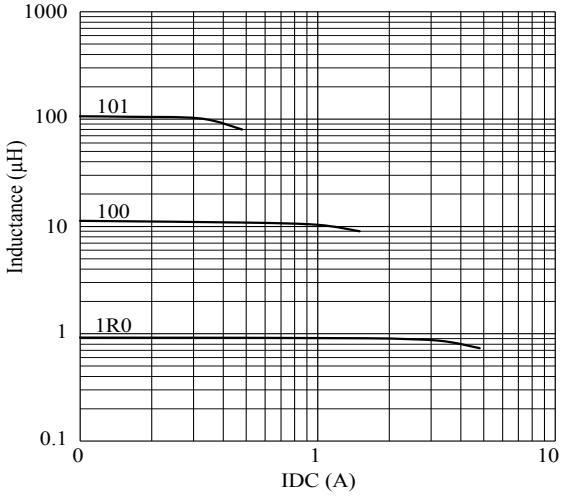


MSN4030 Series

@25°C Inductance VS. DC Current Curve

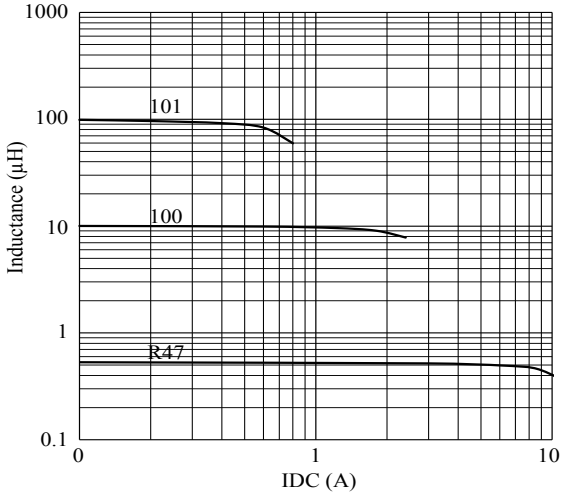


@125°C Inductance VS. DC Current Curve

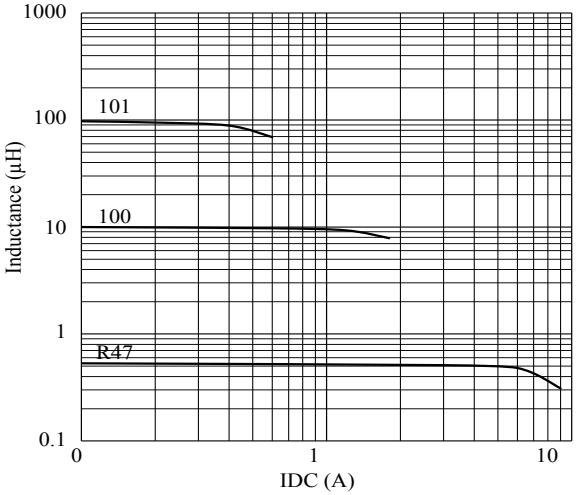


MSN5030 Series

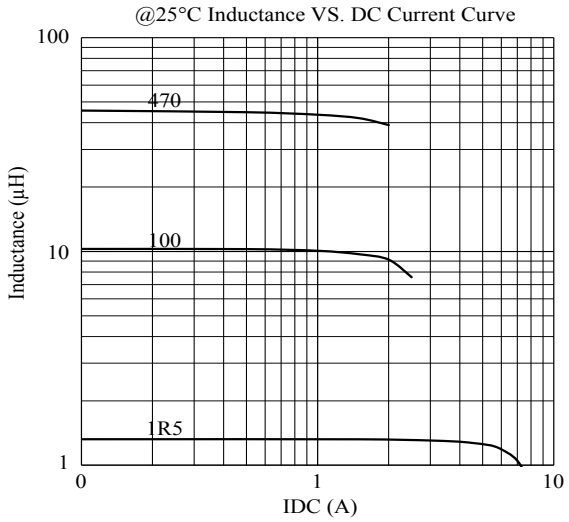
@25°C Inductance VS. DC Current Curve

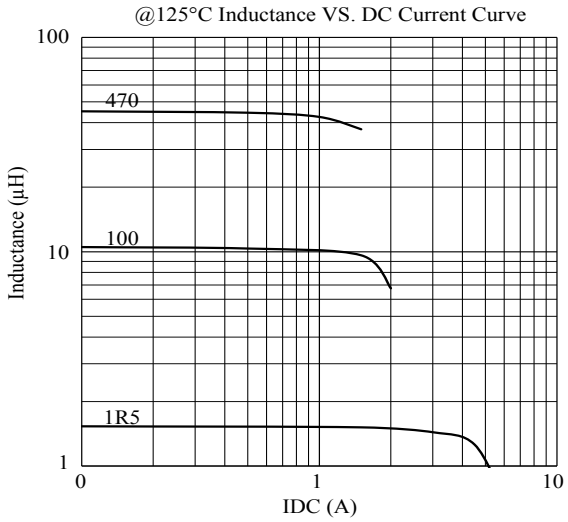


@125°C Inductance VS. DC Current Curve

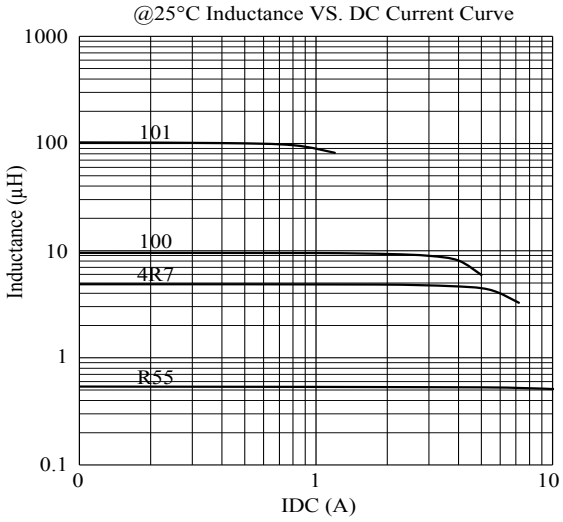


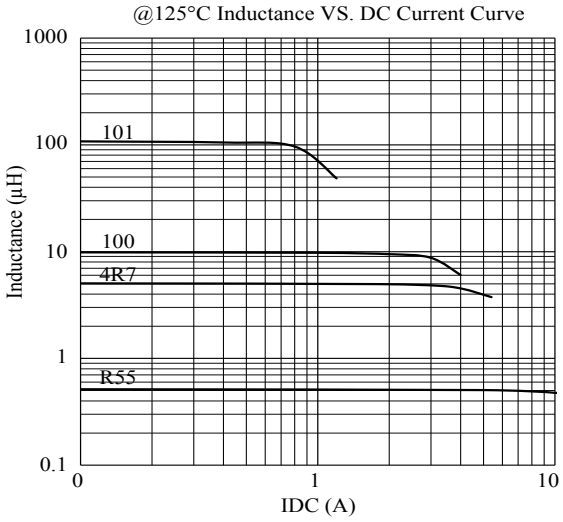
MSN5040 Series



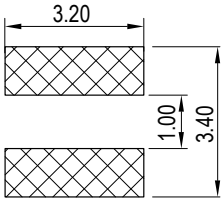


MSN6045 Series

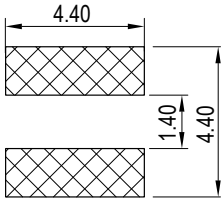




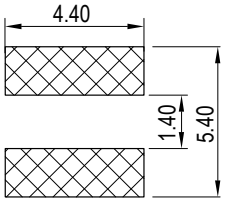
PCB Pattern



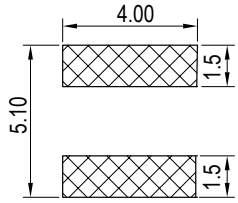
MSN3030



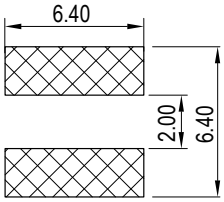
MSN4030



MSN5030



MSN5040

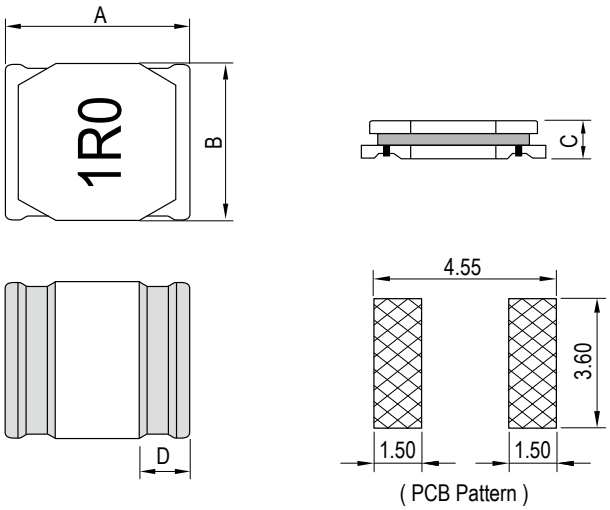


MSN6045

TPI SERIES

4018CT-A1

Semi-shielded



Unit: mm

Series	A	B	C	D
TPI4018CT-A1	4.00±0.20	4.00±0.20	1.88 max. (R82~2R7) 1.80 max. (3R3~221)	1.30 typ.

Features

- Magnetic resin coating onto coil
- Semi-shielded effect to reduce leakage field
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C
  (including self-temperature rise)

compliant RoHS RoHS & HF compliant

Application

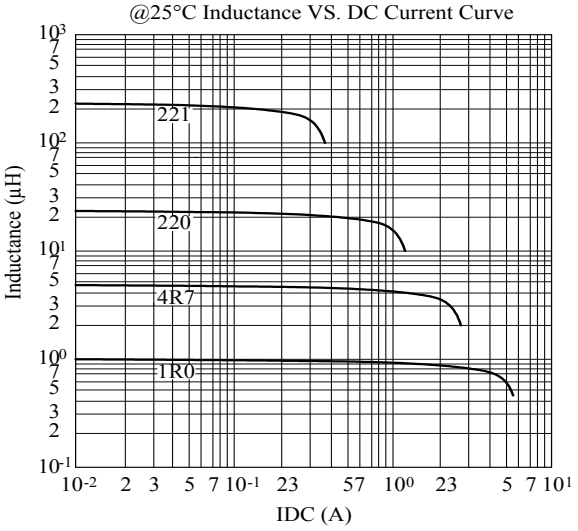
- Telematics
- Infotainment
- BCM

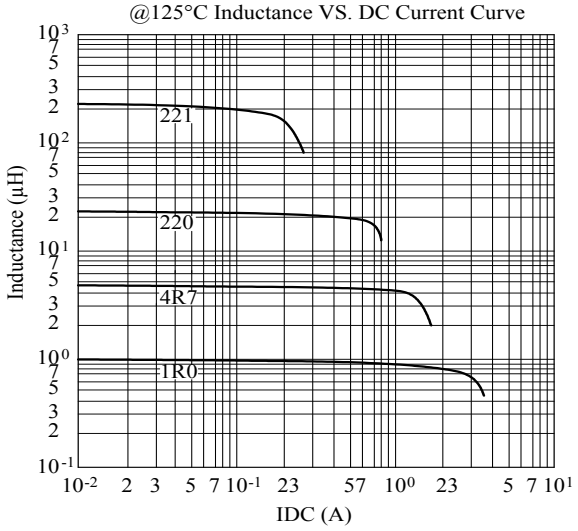
TPI4018CT-A1 Series									
DWG. No.	Inductance (μH)	Test Freq.	Tolerance	SRF Min (MHz)	DC Resistance		Rated DC current (A)		Marking
					(mΩ)	Tol.	Idc1	Idc2	
TPI4018CT R82□-A1	0.82	100kHz,1V	N	100	16	±30%	4.20	4.00	R82
TPI4018CT 1R0□-A1	1.00	100kHz,1V	N	90	19		4.70	3.70	1R0
TPI4018CT 1R2□-A1	1.20	100kHz,1V	N	80	21		4.00	3.50	1R2
TPI4018CT 1R5□-A1	1.50	100kHz,1V	N	70	32		3.50	3.10	1R5
TPI4018CT 2R2□-A1	2.20	100kHz,1V	M	60	37	±20%	3.00	2.90	2R2
TPI4018CT 2R7□-A1	2.70	100kHz,1V	M	52	43		2.40	2.30	2R7
TPI4018CT 3R3□-A1	3.30	100kHz,1V	M	45	55		2.30	2.20	3R3
TPI4018CT 4R7□-A1	4.70	100kHz,1V	M	35	70		2.00	1.90	4R7
TPI4018CT 6R8□-A1	6.80	100kHz,1V	M	30	98		1.60	1.50	6R8
TPI4018CT 100□-A1	10.00	100kHz,1V	M	25	150		1.40	1.30	100
TPI4018CT 150□-A1	15.00	100kHz,1V	M	18	220		1.10	1.00	150
TPI4018CT 220□-A1	22.00	100kHz,1V	M	15	290		0.95	0.90	220
TPI4018CT 330□-A1	33.00	100kHz,1V	M	12	460		0.75	0.70	330
TPI4018CT 470□-A1	47.00	100kHz,1V	M	10	650		0.62	0.60	470
TPI4018CT 680□-A1	68.00	100kHz,1V	M	8	940		0.50	0.50	680
TPI4018CT 101□-A1	100.00	100kHz,1V	M	6	1330		0.45	0.42	101
TPI4018CT 151□-A1	150.00	100kHz,1V	M	5	2000		0.35	0.32	151
TPI4018CT 221□-A1	220.00	100kHz,1V	M	3	2960		0.30	0.28	221

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. DCR is measured in DU-5011 milliohm meter (or equivalent).
3. Tolerance : M=20% , N=30% (Table shows stock tolerances in □).
4. Idc1 : Based on inductance change (ΔL/Lo : ≤-30%)
5. Idc2 : Based on temperature rise (ΔT : 40°C typ.)
6. Operating temperature range: -40°C ~ +125°C (Including self generated heat)

Note: MSL = 1

TPI4018CT-A1 Series

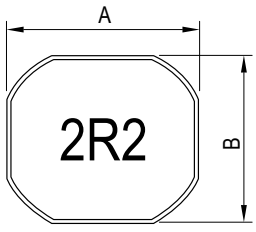


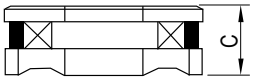


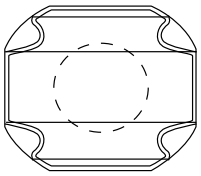
TPI SERIES

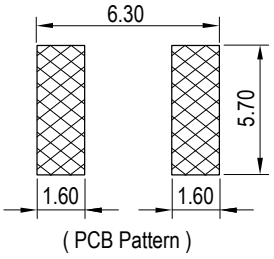
TPI6045CT-A1

Semi-shielded









Unit: mm

Series	A	B	C
TPI6045CT-A1	6.00±0.20	6.00±0.20	4.50 max.

Features

- Magnetic resin coating onto coil
- Semi-shielded effect to reduce leakage field
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C
  (including self-temperature rise)

Application

- Telematics
- Infotainment
- BCM

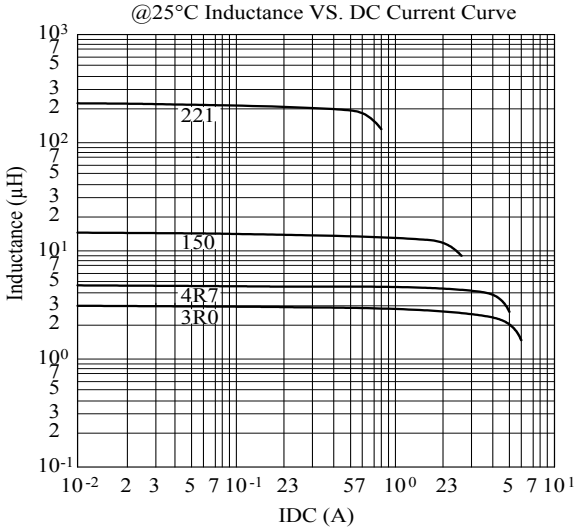
TPI6045CT-A1 Series									
DWG. No.	Inductance (μH)	Test Freq.	Tolerance	SRF Min (MHz)	DC Resistance		Rated DC current (A)		Marking
					(mΩ)	Tol.	Idc1	Idc2	
TPI6045CT 1R0□-A1	1.0	100kHz,1V	N	120	10	±30%	8.60	6.50	1R0
TPI6045CT 1R3□-A1	1.3	100kHz,1V	N	105	11		8.00	6.00	1R3
TPI6045CT 1R8□-A1	1.8	100kHz,1V	N	72	12		7.00	5.30	1R8
TPI6045CT 2R2□-A1	2.2	100kHz,1V	N	45	13		6.10	5.00	2R2
TPI6045CT 3R0□-A1	3.0	100kHz,1V	N	40	17		5.00	4.80	3R0
TPI6045CT 3R3□-A1	3.3	100kHz,1V	N	32	17		4.50	4.50	3R3
TPI6045CT 3R6□-A1	3.6	100kHz,1V	N	31	17		4.90	4.50	3R6
TPI6045CT 4R5□-A1	4.5	100kHz,1V	N	30	23		4.30	3.80	4R5
TPI6045CT 4R7□-A1	4.7	100kHz,1V	N	29	23		4.00	3.70	4R7
TPI6045CT 5R6□-A1	5.6	100kHz,1V	N	25	26		3.80	3.60	5R6
TPI6045CT 6R3□-A1	6.3	100kHz,1V	N	27	26		3.80	3.60	6R3
TPI6045CT 6R8□-A1	6.8	100kHz,1V	N	25	34		3.60	3.50	6R8
TPI6045CT 8R2□-A1	8.2	100kHz,1V	N	22	41		3.20	3.10	8R2
TPI6045CT 100□-A1	10.0	100kHz,1V	M	16	45	±20%	3.10	3.00	100
TPI6045CT 150□-A1	15.0	100kHz,1V	M	13	80		2.30	2.30	150
TPI6045CT 220□-A1	22.0	100kHz,1V	M	11	112		1.90	1.90	220
TPI6045CT 330□-A1	33.0	100kHz,1V	M	8	170		1.50	1.50	330
TPI6045CT 470□-A1	47.0	100kHz,1V	M	7	210		1.30	1.30	470
TPI6045CT 560□-A1	56.0	100kHz,1V	M	6	270		1.20	1.20	560
TPI6045CT 680□-A1	68.0	100kHz,1V	M	5	325		1.00	1.00	680
TPI6045CT 101□-A1	100.0	100kHz,1V	M	4	460		0.90	0.90	101
TPI6045CT 221□-A1	220.0	100kHz,1V	M	3	920		0.55	0.50	221
TPI6045CT 331□-A1	330.0	100kHz,1V	M	2	1450		0.45	0.40	331

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. DCR is measured in DU-5011 milliohm meter (or equivalent).
3. Tolerance : M=20% , N=30% (Table shows stock tolerances in □).
4. Idc1 : Based on inductance change (ΔL/Lo : ≤-30%)
5. Idc2 : Based on temperature rise (ΔT : 40°C typ.)
6. Opearting Temperature: -40°C ~ +125°C

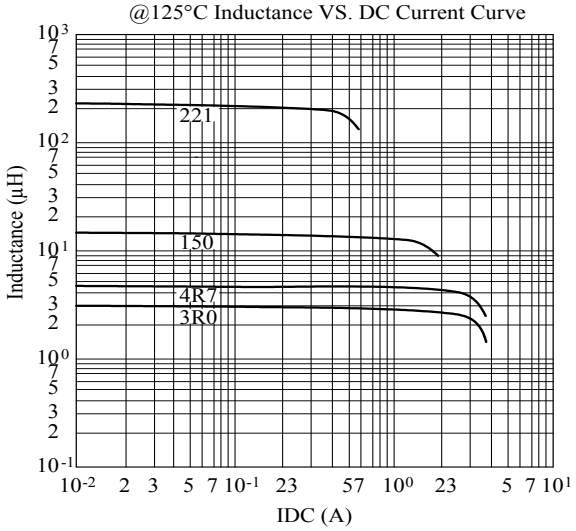
Note: MSL = 1

TPI6045CT-A1 Series

@25°C Inductance VS. DC Current Curve

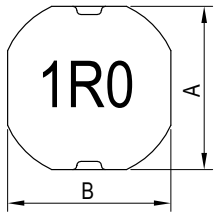


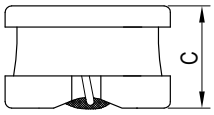
@125°C Inductance VS. DC Current Curve

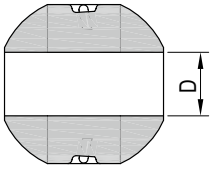


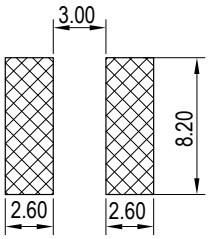
MRN SERIES 8040

Semi-shielded









(PCB Pattern)

Unit: mm

Series	A	B	C	D
MRN8040	8.15±0.30	7.90±0.30	4.20 max.	3.20 ref.

Features

- Magnetic resin coating onto coil
- Semi-shielded effect to reduce leakage field
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C
  (including self-temperature rise)

compliant RoHS RoHS & HF compliant

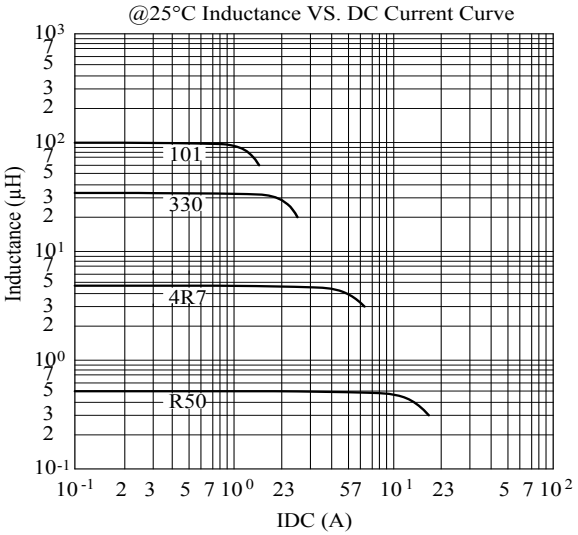
Application

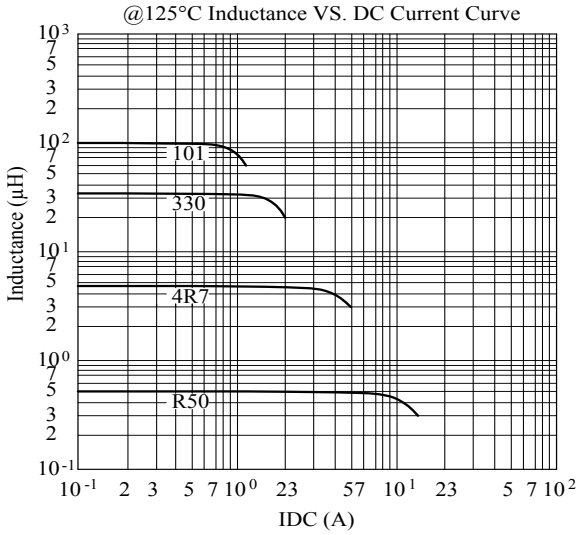
- Telematics
- Infotainment
- BCM

MRN8040 Series							
DWG. No.	Inductance (μH)	Q min. @1 MHz	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms (A) typ.
			typ.	max.			
MRN8040R50YHB-□□□	0.5±30%	15	5.0	7.0	110	15.0	10.0
MRN80401R0MHB-□□□	1.0±20%	15	6.9	10.0	85	13.8	8.5
MRN80401R5MHB-□□□	1.5±20%	15	8.0	11.0	55	12.0	7.0
MRN80402R2MHB-□□□	2.2±20%	14	11.0	14.0	43	10.5	6.3
MRN80402R7MHB-□□□	2.7±20%	14	16.0	21.0	37	9.0	5.6
MRN80403R6MHB-□□□	3.6±20%	13	18.0	24.0	34	8.0	4.9
MRN80404R7MHB-□□□	4.7±20%	13	24.0	30.0	29	7.0	4.1
MRN80406R8MHB-□□□	6.8±20%	12	33.0	42.0	23	5.5	3.9
MRN80408R2MHB-□□□	8.2±20%	11	37.0	48.0	22	5.2	3.7
MRN8040100MHB-□□□	10.0±20%	11	47.0	61.0	20	4.8	3.1
MRN8040150MHB-□□□	15.0±20%	10	66.0	86.0	15	3.7	2.4
MRN8040220MHB-□□□	22.0±20%	10	92.0	120.0	12	3.3	2.2
MRN8040330MHB-□□□	33.0±20%	8.5	133.0	166.0	10	2.6	1.7
MRN8040470MHB-□□□	47.0±20%	8.5	190.0	237.0	8.5	2.2	1.4
MRN8040680MHB-□□□	68.0±20%	8.0	268.0	337.0	7.0	1.7	1.1
MRN8040101MHB-□□□	100.0±20%	8.0	383.0	479.0	6.0	1.3	1.0

1. Electrical specifications at 25°C
2. Inductance test condition.: 100kHz / 1V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on temp. rise 40°C typ.

MRN8040 Series

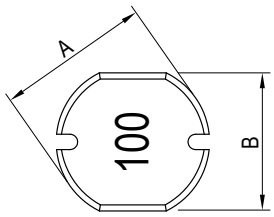


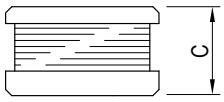


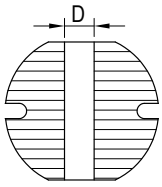
AER SERIES

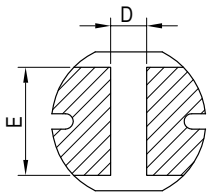
0403 / 0604 / 0805 / MER1006

Non-Shielded









MER1006

For PCB pattern information, please see page 38

Unit: mm

Series	A	B	C	D	E
AER0403	4.50±0.30	4.00±0.30	3.20±0.30	1.60 ref.	-
AER0604	5.80±0.30	5.20±0.30	4.50±0.30	2.10±0.50	-
AER0805	7.80±0.30	7.00±0.30	5.00±0.50	2.10 ref.	-
MER1006	10.00±0.40	9.00±0.40	5.40±0.40	3.00 ref.	7.00 ref.

Features

- Open magnetic circuit structure
- Low DCR
- Excellent current handling
- High saturation current ratings
- AEC-Q200 Grade 1: AER0403 / AER0604 / AER0805
- AER0403: Operating temp.: -40°C ~ +150°C (including self-temperature rise)
- AER0604 / AER0805: Operating temp.: -40°C ~ +125°C (including self-temperature rise)
- AEC-Q200 Grade 0: MER1006
- MER1006: Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- ADAS
- HVAC
- Infotainment

AER0403 Series						
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) ref.	Isat (A) typ.	Irms (A) typ.
		typ.	max.			
AER04031R0MLB-□□□	1.0±20%	19.3	48	113	4.80	2.70
AER04032R2MLB-□□□	2.2±20%	31.8	71	76	3.30	2.30
AER04033R3MLB-□□□	3.3±20%	46.9	86	64	2.50	2.00
AER04034R7MLB-□□□	4.7±20%	64.5	108	50	2.20	1.65
AER04036R8MLB-□□□	6.8±20%	93.6	126	41	1.70	1.45
AER04038R2MLB-□□□	8.2±20%	106.0	142	38	1.60	1.40
AER0403100MLB-□□□	10.0±20%	127.0	172	36	1.40	1.05
AER0403120MLB-□□□	12.0±20%	146.0	197	32	1.30	1.00
AER0403150MLB-□□□	15.0±20%	192.0	259	29	1.20	0.85
AER0403180MLB-□□□	18.0±20%	237.0	309	28	1.10	0.75
AER0403220MLB-□□□	22.0±20%	270.0	351	25	0.95	0.70
AER0403270MLB-□□□	27.0±20%	322.0	419	22	0.85	0.65
AER0403330KLB-□□□	33.0±10%	373.0	485	20	0.80	0.60
AER0403390KLB-□□□	39.0±10%	449.0	561	18	0.70	0.55
AER0403470KLB-□□□	47.0±10%	505.0	631	16	0.65	0.50
AER0403560KLB-□□□	56.0±10%	736.0	920	15	0.60	0.45
AER0403680KLB-□□□	68.0±10%	822.0	1028	13	0.55	0.40

1. Electrical specifications at 25°C
2. Inductance test condition : 1MHz/1V
3. Rated current: The DC current at which the inductance decreases to 90% of it's initial value or when Δt=40°C, whichever is lower(Ta=20°C)

AER0604 Series						
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) ref.	Isat (A) typ.	Irms (A) typ.
		typ.	max.			
AER06041R2MLB-□□□	1.2±20%	16.0	20.0	155.0	6.00	5.30
AER06041R5MLB-□□□	1.5±20%	18.5	24.0	123.0	5.30	5.00
AER06042R2MLB-□□□	2.2±20%	22.9	31.0	80.0	4.20	4.35
AER06042R7MLB-□□□	2.7±20%	27.8	55.0	60.0	3.80	4.00
AER06043R3MLB-□□□	3.3±20%	29.9	60.0	50.0	3.50	3.80
AER06043R9MLB-□□□	3.9±20%	34.0	65.0	44.0	3.20	3.60
AER06044R7MLB-□□□	4.7±20%	38.2	70.0	47.0	3.00	3.40
AER06045R6MLB-□□□	5.6±20%	41.9	75.0	41.0	2.75	3.20
AER06046R8MLB-□□□	6.8±20%	46.7	80.0	36.0	2.40	3.00
AER06048R2MLB-□□□	8.2±20%	53.7	90.0	31.0	2.20	2.80
AER0604100MLB-□□□	10.0±20%	62.1	100.0	32.0	2.00	2.60
AER0604120MLB-□□□	12.0±20%	67.5	120.0	29.0	1.85	2.50
AER0604150MLB-□□□	15.0±20%	94.7	140.0	26.0	1.65	2.30
AER0604180MLB-□□□	18.0±20%	114.0	150.0	24.0	1.50	2.00
AER0604220MLB-□□□	22.0±20%	128.0	180.0	19.0	1.35	1.80
AER0604270MLB-□□□	27.0±20%	140.0	200.0	18.0	1.20	1.70
AER0604330MLB-□□□	33.0±20%	184.0	230.0	17.0	1.10	1.55
AER0604390MLB-□□□	39.0±20%	215.0	320.0	17.0	1.00	1.40
AER0604470MLB-□□□	47.0±20%	258.0	370.0	14.0	0.90	1.25
AER0604560KLB-□□□	56.0±10%	298.0	420.0	12.0	0.82	1.10
AER0604680KLB-□□□	68.0±10%	343.0	460.0	11.0	0.74	1.00
AER0604820KLB-□□□	82.0±10%	436.0	600.0	8.0	0.68	0.90
AER0604101KLB-□□□	100.0±10%	559.0	700.0	7.5	0.62	0.80
AER0604121KLB-□□□	120.0±10%	599.0	900.0	7.5	0.60	0.75
AER0604151KLB-□□□	150.0±10%	900.0	1100.0	7.0	0.52	0.52
AER0604181KLB-□□□	180.0±10%	1030.0	1380.0	6.0	0.50	0.50
AER0604221KLB-□□□	220.0±10%	1325.0	1570.0	5.0	0.47	0.47

1. Electrical specifications at 25°C
2. Inductance test condition : 1.2μH~82μH at 1MHz/1V
   100μH~220μH at 1kHz/1V
3. Rated current: The DC current at which the inductance decreases to 90% of it's initial value or when Δt=40°C, whichever is lower(Ta=20°C)

AER0805 Series						
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) ref.	Isat (A) typ.	Irms (A) typ.
		typ.	max.			
AER08051R5MLB-□□□	1.5±20%	15	20	115.0	6.50	5.80
AER08052R5MLB-□□□	2.5±20%	20	27	71.2	5.00	5.00
AER08053R3MLB-□□□	3.3±20%	24	32	53.3	4.50	4.60
AER08054R7MLB-□□□	4.7±20%	28	38	44.2	4.00	4.30
AER08055R6MLB-□□□	5.6±20%	32	43	34.9	3.70	4.00
AER08056R8MLB-□□□	6.8±20%	36	48	32.0	3.20	3.80
AER08058R2MLB-□□□	8.2±20%	39	52	28.5	3.00	3.60
AER0805100MLB-□□□	10.0±20%	50	70	27.5	2.60	3.20
AER0805120MLB-□□□	12.0±20%	56	80	25.8	2.40	3.00
AER0805150MLB-□□□	15.0±20%	60	90	22.5	2.20	2.50
AER0805180MLB-□□□	18.0±20%	74	100	17.6	2.00	2.45
AER0805220MLB-□□□	22.0±20%	82	110	16.5	1.80	2.35
AER0805270MLB-□□□	27.0±20%	94	120	14.3	1.70	2.20
AER0805330MLB-□□□	33.0±20%	117	130	13.2	1.60	2.00
AER0805390MLB-□□□	39.0±20%	137	160	12.6	1.50	1.90
AER0805470KLB-□□□	47.0±10%	165	180	12.1	1.40	1.70
AER0805560KLB-□□□	56.0±10%	200	240	11.5	1.20	1.60
AER0805680KLB-□□□	68.0±10%	230	280	10.5	1.10	1.45
AER0805820KLB-□□□	82.0±10%	300	370	9.4	1.00	1.20
AER0805101KLB-□□□	100.0±10%	320	430	8.8	0.90	1.10
AER0805121KLB-□□□	120.0±10%	360	470	7.7	0.80	1.00
AER0805151KLB-□□□	150.0±10%	515	640	7.2	0.72	0.90
AER0805181KLB-□□□	180.0±10%	576	710	6.2	0.65	0.85
AER0805221KLB-□□□	220.0±10%	750	960	6.0	0.60	0.80
AER0805271KLB-□□□	270.0±10%	870	1110	5.0	0.55	0.70
AER0805331KLB-□□□	330.0±10%	1020	1200	4.9	0.50	0.65
AER0805391KLB-□□□	390.0±10%	1290	1500	4.4	0.45	0.60
AER0805471KLB-□□□	470.0±10%	1470	1700	3.6	0.40	0.55

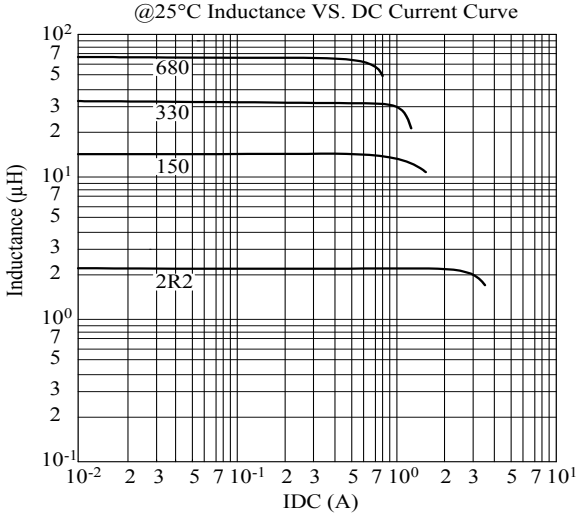
1. Electrical specifications at 25°C
2. Inductance test condition : 1.5μH~82μH at 1MHz/1V
   100μH~470μH at 1kHz/1V
3. Rated current: The DC current at which the inductance decreases to 90% of it's initial value or when Δt=40°C, whichever is lower(Ta=20°C)

MER1006 Series						
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) ref.	Isat (A) typ.	Irms (A) max.
		typ.	max.			
MER10061R8MLB-□□□	1.8±20%	10.8	18	69.6	7.70	7.20
MER10062R2MLB-□□□	2.2±20%	14.3	21	57.7	6.40	6.00
MER10063R3MLB-□□□	3.3±20%	16.6	24	48.8	5.70	5.40
MER10063R9MLB-□□□	3.9±20%	18.8	27	40.6	5.50	5.20
MER10064R7MLB-□□□	4.7±20%	23.3	36	37.4	5.00	4.70
MER10065R6MLB-□□□	5.6±20%	25.9	40	35.6	4.80	4.50
MER10066R8MLB-□□□	6.8±20%	28.1	44	32.1	4.50	4.20
MER10068R2MLB-□□□	8.2±20%	32.3	48	27.9	4.30	4.10
MER1006100MLB-□□□	10±20%	34.2	60	25.0	4.10	3.80
MER1006120MLB-□□□	12±20%	36.9	70	23.0	3.85	3.60
MER1006150MLB-□□□	15±20%	43.6	80	19.8	3.64	3.40
MER1006180MLB-□□□	18±20%	60.7	90	19.3	3.00	2.80
MER1006220MLB-□□□	22±20%	68.3	100	16.0	2.75	2.60
MER1006270MLB-□□□	27±20%	87.6	110	13.3	2.45	2.30
MER1006330MLB-□□□	33±20%	96.9	120	12.1	2.35	2.20
MER1006390MLB-□□□	39±20%	111	140	12.0	2.00	1.90
MER1006470KLB-□□□	47±10%	126	170	11.0	1.90	1.80
MER1006560KLB-□□□	56±10%	141	190	10.2	1.80	1.70
MER1006680KLB-□□□	68±10%	176	220	9.4	1.70	1.60
MER1006820KLB-□□□	82±10%	201	250	8.8	1.60	1.50
MER1006101KLB-□□□	100±10%	262	350	7.3	1.35	1.30
MER1006121KLB-□□□	120±10%	301	400	6.6	1.25	1.20
MER1006151KLB-□□□	150±10%	350	470	6.6	1.15	1.10
MER1006181KLB-□□□	180±10%	457	630	6.1	1.10	1.00
MER1006221KLB-□□□	220±10%	524	730	5.3	0.95	0.90
MER1006271KLB-□□□	270±10%	711	970	4.3	0.85	0.80
MER1006331KLB-□□□	330±10%	814	1150	4.3	0.75	0.70
MER1006391KLB-□□□	390±10%	923	1300	3.3	0.70	0.65
MER1006471KLB-□□□	470±10%	1056	1480	3.3	0.64	0.60
MER1006561KLB-□□□	560±10%	1359	1900	3.3	0.59	0.55
MER1006681KLB-□□□	680±10%	1559	2250	2.8	0.54	0.50
MER1006821KLB-□□□	820±10%	1805	2550	2.2	0.48	0.45

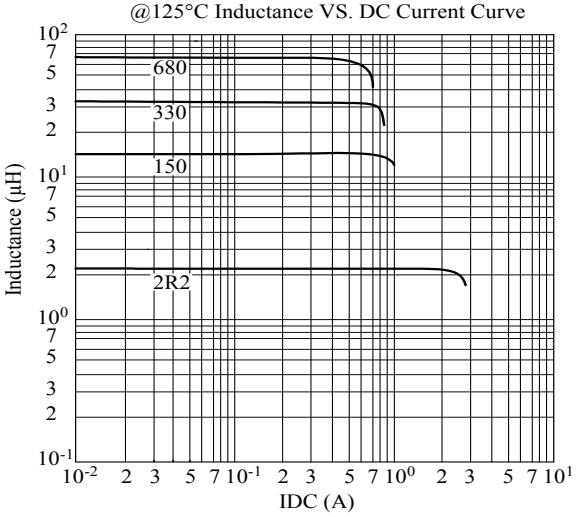
1. Electrical specifications at 25°C
2. Inductance test condition : 1.8μH~82μH at 1MHz/1V
   100μH~820μH at 1kHz/1V
3. Isat base on ΔL/L0A=10% typ.
4. Irms base on temp. rise 40°C max.

AER0403 Series

@25°C Inductance VS. DC Current Curve

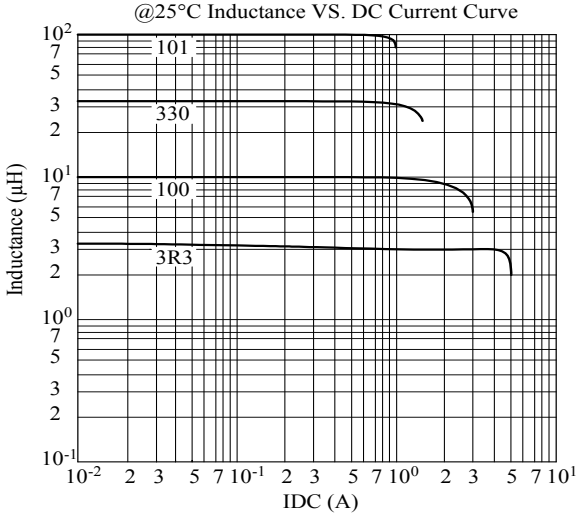


@125°C Inductance VS. DC Current Curve

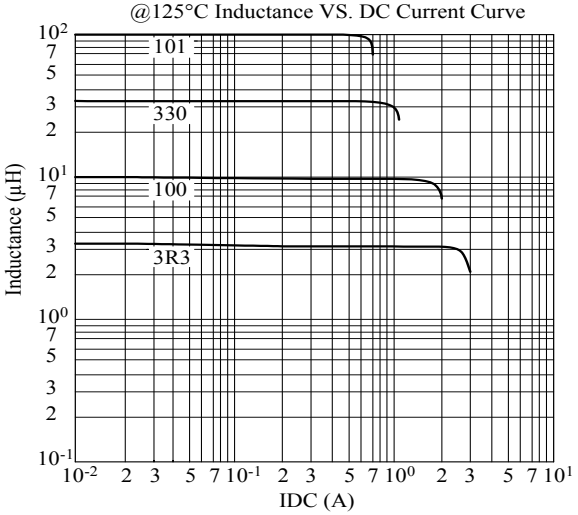


AER0604 Series

@25°C Inductance VS. DC Current Curve

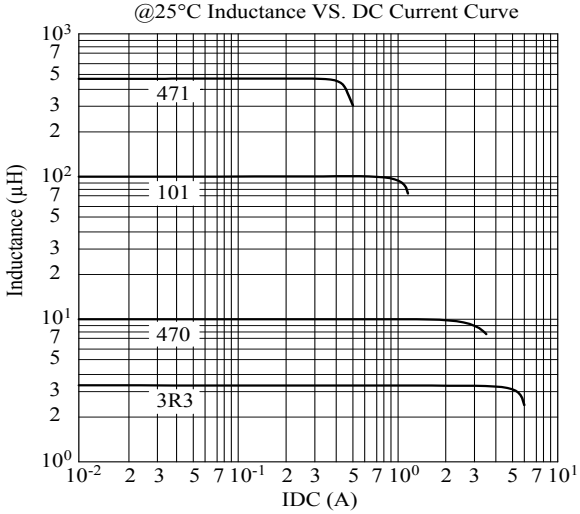


@125°C Inductance VS. DC Current Curve

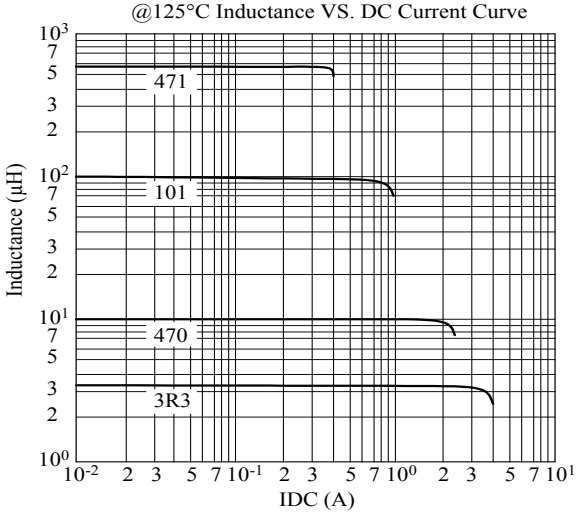


AER0805 Series

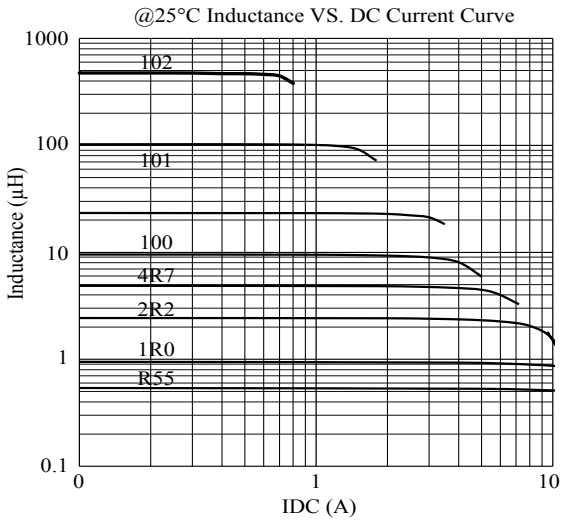
@25°C Inductance VS. DC Current Curve

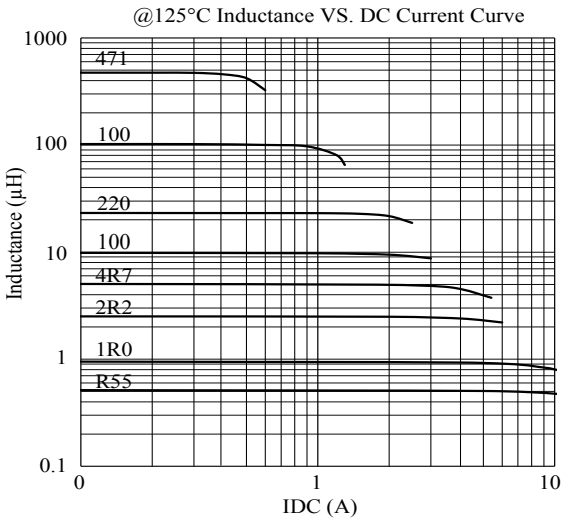


@125°C Inductance VS. DC Current Curve

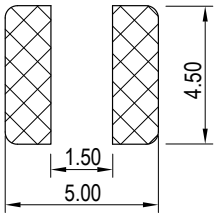


MER1006 Series

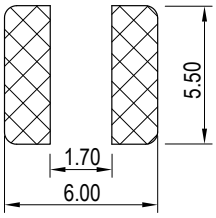




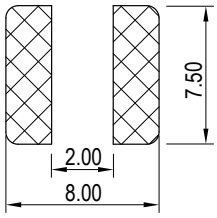
PCB Pattern



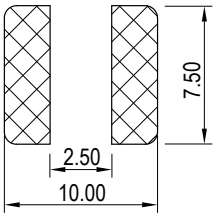
AER0403



AER0604



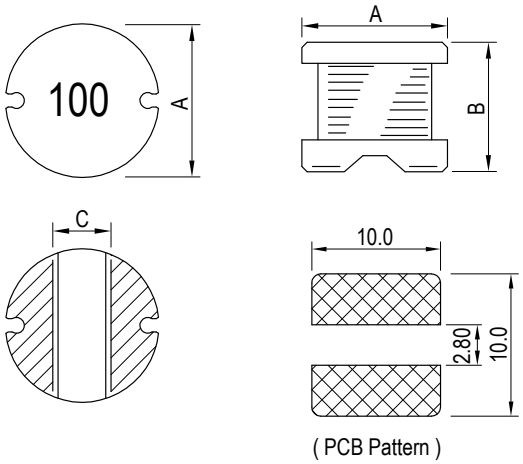
AER0805



MER1006

ASR SERIES 1011

Non-Shielded



Unit: mm

Series	A	B	C
ASR1011	9.50±0.30	11.50±0.50	2.90 ref.

Features

- Open magnetic circuit structure
- Low DCR
- Excellent current handling
- High saturation current ratings
- High energy storage
- Rugged, cost-effective power inductors
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

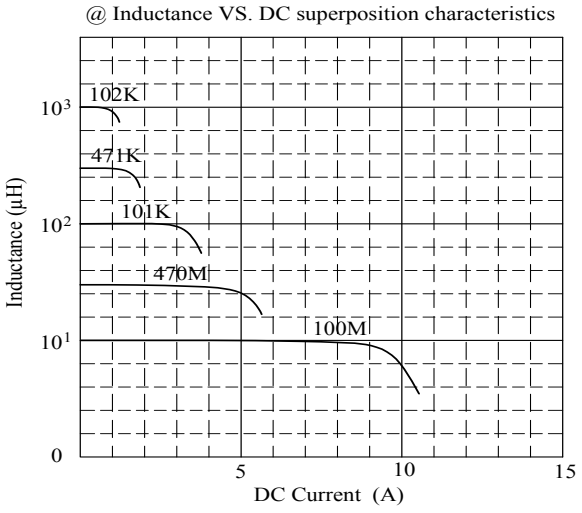
Application

- ADAS
- HVAC
- Infotainment

ASR1011 Series						
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω) max.	Irms 1 (A) typ.	Irms 2 (A) max.	Isat (A) max.
ASR1011100MLB-□□□	10.0±20%	18.0	0.035	3.50	5.00	8.00
ASR1011150MLB-□□□	15.0±20%	13.0	0.045	3.00	4.00	7.00
ASR1011220MLB-□□□	22.0±20%	12.0	0.065	2.50	3.20	5.50
ASR1011330MLB-□□□	33.0±20%	9.5	0.080	2.00	2.60	4.00
ASR1011470MLB-□□□	47.0±20%	7.0	0.110	1.70	2.20	3.80
ASR1011680MLB-□□□	68.0±20%	5.8	0.150	1.50	2.00	3.00
ASR1011101KLB-□□□	100.0±10%	4.8	0.200	1.30	1.80	2.50
ASR1011151KLB-□□□	150.0±10%	3.8	0.320	1.00	1.50	2.00
ASR1011221KLB-□□□	220.0±10%	3.1	0.420	0.90	1.20	1.70
ASR1011331KLB-□□□	330.0±10%	2.5	0.700	0.70	0.90	1.30
ASR1011471KLB-□□□	470.0±10%	2.1	0.900	0.50	0.75	1.10
ASR1011681KLB-□□□	680.0±10%	1.7	1.250	0.40	0.60	1.00
ASR1011102KLB-□□□	1000.0±10%	1.4	1.900	0.30	0.50	0.80

1. Electrical specifications at 25°C
2. Test Freq:100kHz , 0.1V
3. Isat base on ΔL/L0A=10% max.
4. Irms 1 base on temp. rise 20°C typ.
5. Irms 2 base on temp. rise 40°C max.

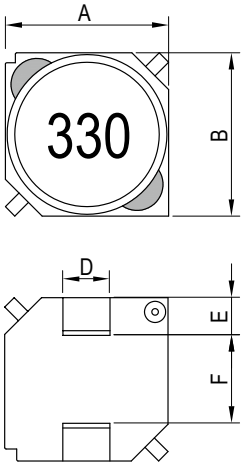
ASR1011 Series

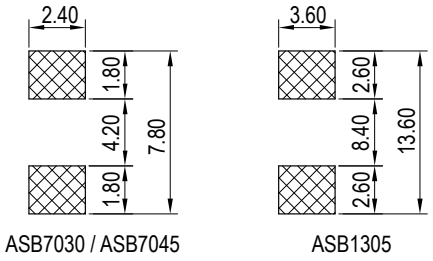


ASB SERIES

7030 / 7045 / 1305

Non-Shielded





Unit: mm

Series	A	B	C	D	E	F
ASB7030	7.00±0.30	7.00±0.30	3.00±0.30	2.00 typ.	1.50 typ.	4.00 typ.
ASB7045	7.00±0.30	7.00±0.30	4.50±0.30	2.00 TYP.	1.50 TYP.	4.00 typ.
ASB1305	12.70±0.30	12.70±0.30	4.80±0.30	3.00 typ.	2.00 typ.	8.60 typ.

Features

- Open magnetic circuit structure
- Low DCR values
- High saturation current ratings
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

Application

- ADAS
- HVAC
- Infotainment

ASB7030 Series							
DWG. No.	Inductance (μH) 100kHz / 0.1V	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A) max.	Isat (A) typ.
ASB70301R0MLB-□□□	1.0±20%	18	7.96	113	0.022	3.00	4.30
ASB70301R5MLB-□□□	1.5±20%	17	7.96	100	0.027	2.75	3.60
ASB70302R2MLB-□□□	2.2±20%	17	7.96	80	0.030	2.60	3.20
ASB70303R5MLB-□□□	3.5±20%	17	7.96	59	0.038	2.20	2.60
ASB70304R7MLB-□□□	4.7±20%	14	7.96	43	0.048	1.85	2.25
ASB70306R2MLB-□□□	6.2±20%	17	7.96	41	0.058	1.65	2.00
ASB7030100MLB-□□□	10.0±20%	16	2.52	35	0.075	1.50	1.60
ASB7030150MLB-□□□	15.0±20%	14	2.52	33	0.115	1.20	1.30
ASB7030220MLB-□□□	22.0±20%	14	2.52	32	0.160	1.02	1.10
ASB7030330MLB-□□□	33.0±20%	13	2.52	24	0.230	0.85	0.90
ASB7030470KLB-□□□	47.0±10%	12	2.52	18	0.340	0.70	0.78
ASB7030680KLB-□□□	68.0±10%	12	2.52	16	0.480	0.58	0.64
ASB7030101KLB-□□□	100.0±10%	18	0.796	15	0.720	0.46	0.52
ASB7030151KLB-□□□	150.0±10%	18	0.796	12	0.920	0.40	0.42
ASB7030221KLB-□□□	220.0±10%	23	0.796	9	1.600	0.32	0.34
ASB7030331KLB-□□□	330.0±10%	24	0.796	7	2.200	0.26	0.28
ASB7030471KLB-□□□	470.0±10%	30	0.796	6	2.800	0.22	0.23
ASB7030681KLB-□□□	680.0±10%	28	0.796	5	4.350	0.18	0.18
ASB7045 Series							
DWG. No.	Inductance (μH) 100kHz / 0.1V	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A) max.	Isat (A) typ.
ASB70451R2MLB-□□□	1.2±20%	25	7.96	90	0.022	3.80	5.00
ASB70451R5MLB-□□□	1.5±20%	26	7.96	109	0.027	3.50	4.50
ASB70452R2MLB-□□□	2.2±20%	24	7.96	79	0.032	3.30	4.00
ASB70453R3MLB-□□□	3.3±20%	23	7.96	47	0.036	2.80	3.70
ASB70454R7MLB-□□□	4.7±20%	23	7.96	38	0.042	2.60	3.40
ASB70456R8MLB-□□□	6.8±20%	22	7.96	35	0.054	2.25	2.70
ASB7045100MLB-□□□	10.0±20%	28	2.52	23	0.070	2.00	2.30
ASB7045150MLB-□□□	15.0±20%	24	2.52	19	0.086	1.60	1.90
ASB7045220MLB-□□□	22.0±20%	26	2.52	18	0.125	1.40	1.62
ASB7045330MLB-□□□	33.0±20%	20	2.52	18	0.150	1.22	1.32
ASB7045470KLB-□□□	47.0±10%	21	2.52	11	0.230	1.00	1.10
ASB7045680KLB-□□□	68.0±10%	17	2.52	11	0.280	0.90	0.92
ASB7045101KLB-□□□	100.0±10%	17	0.796	10	0.430	0.75	0.72
ASB7045151KLB-□□□	150.0±10%	17	0.796	8	0.580	0.62	0.58
ASB7045221KLB-□□□	220.0±10%	22	0.796	6	0.930	0.50	0.48
ASB7045331KLB-□□□	330.0±10%	20	0.796	6	1.240	0.42	0.40
ASB7045471KLB-□□□	470.0±10%	20	0.796	4	1.850	0.34	0.30
ASB7045681KLB-□□□	680.0±10%	18	0.796	4	2.400	0.30	0.26
ASB7045102KLB-□□□	1000.0±10%	48	0.252	3	4.000	0.22	0.20

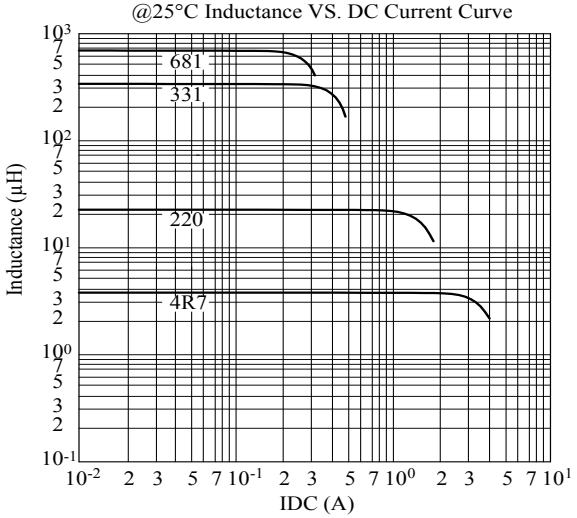
1. Electrical specifications at 25°C
2. Irms base on temperature rise 40°C max.
3. Isat base on ΔL/L0A=10% typ .

ASB1305 Series								
DWG. No.	L (μH)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
			L (Hz)	Q (MHz)				
ASB13052R5YLB-□□□	2.5±25%	20	100k/10mV	7.96	61.0	14	7.20	8.00
ASB13053R5YLB-□□□	3.5±25%	18	100k/10mV	7.96	43.0	16	6.00	7.00
ASB13054R6YLB-□□□	4.6±25%	20	100k/10mV	7.96	35.0	18	5.20	6.00
ASB13056R8YLB-□□□	6.8±25%	18	100k/10mV	7.96	32.0	24	4.30	5.20
ASB1305100MLB-□□□	10.0±20%	25	100k/10mV	2.52	27.0	37	3.60	4.40
ASB1305150MLB-□□□	15.0±20%	25	100k/10mV	2.52	24.0	46	3.30	3.70
ASB1305220MLB-□□□	22.0±20%	26	100k/10mV	2.52	20.0	62	2.90	3.00
ASB1305330MLB-□□□	33.0±20%	22	100k/10mV	2.52	16.0	85	2.50	2.60
ASB1305470MLB-□□□	47.0±20%	20	100k/10mV	2.52	13.0	130	1.90	2.00
ASB1305680MLB-□□□	68.0±20%	20	100k/10mV	2.52	11.0	165	1.65	1.80
ASB1305101KLB-□□□	100.0±10%	18	100k/10mV	0.796	11.0	255	1.40	1.40
ASB1305151KLB-□□□	150.0±10%	15	100k/10mV	0.796	8.0	380	1.20	1.15
ASB1305221KLB-□□□	220.0±10%	15	100k/10mV	0.796	7.0	500	1.00	0.95
ASB1305331KLB-□□□	330.0±10%	10	100k/10mV	0.796	6.0	700	0.85	0.80
ASB1305471KLB-□□□	470.0±10%	10	100k/10mV	0.796	4.0	1150	0.67	0.70
ASB1305681KLB-□□□	680.0±10%	10	100k/10mV	0.796	3.5	1400	0.60	0.58
ASB1305102KLB-□□□	1000.0±10%	32	100k/10mV	0.252	2.7	2350	0.46	0.47

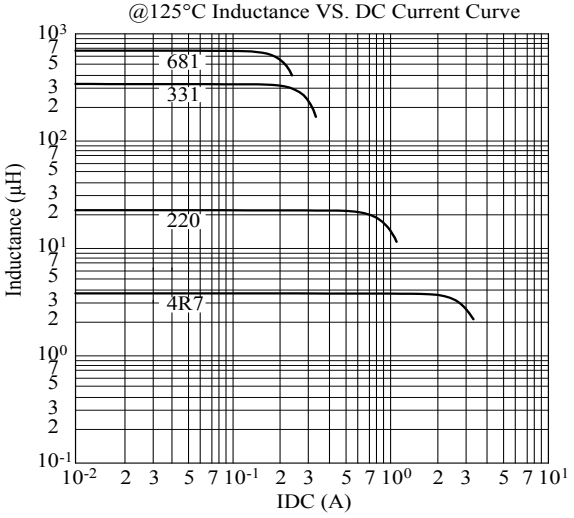
1. Electrical specifications at 25°C
2. Irms base on temperature rise 40°C max.
3. Isat base on ΔL/L0A=25% typ .

ASB7030 Series

@25°C Inductance VS. DC Current Curve

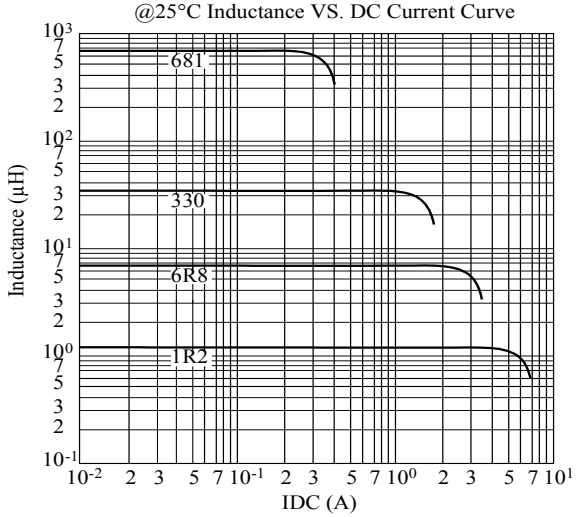


@125°C Inductance VS. DC Current Curve

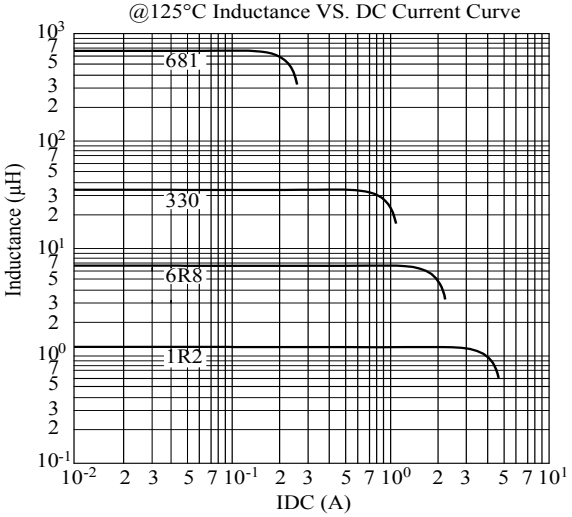


ASB7045 Series

@25°C Inductance VS. DC Current Curve

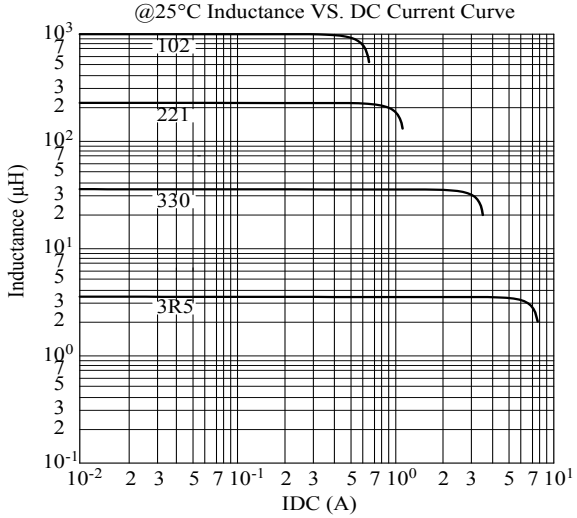


@125°C Inductance VS. DC Current Curve

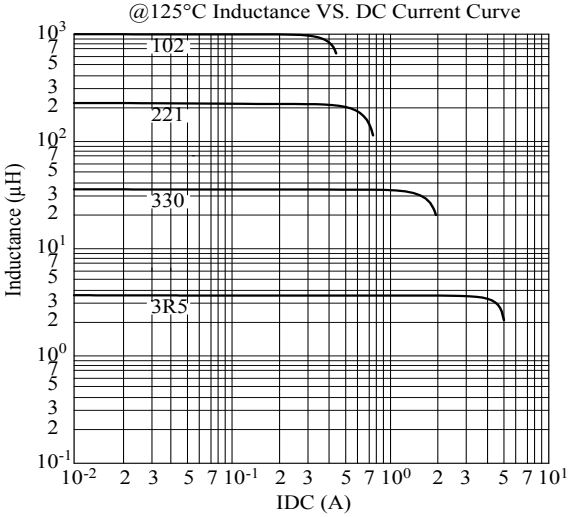


ASB1305 Series

@25°C Inductance VS. DC Current Curve

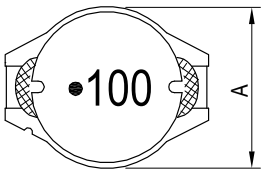


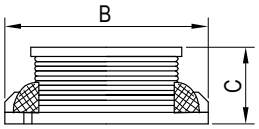
@125°C Inductance VS. DC Current Curve

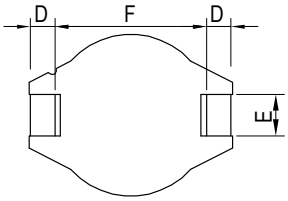


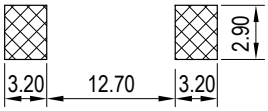
ASB SERIES 1806

Non-Shielded









(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F
ASB1806	14.00±0.50	18.20±0.50	6.60±0.50	2.50±0.20	2.60±0.20	13.00±0.30

Features

- Open magnetic circuit structure
- Low DCR values
- High saturation current ratings
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

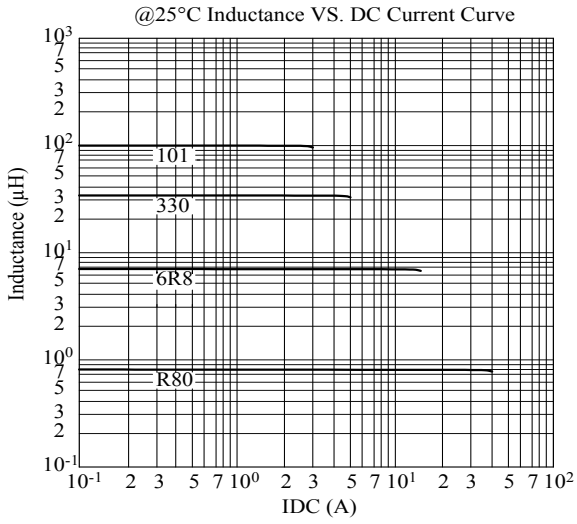
Application

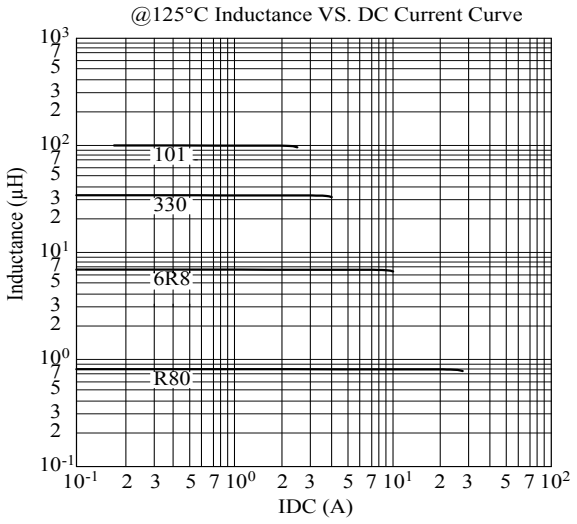
- ADAS
- HVAC
- Infotainment

ASB1806 Series					
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
ASB18061R0MLB-□□□	1.0±20%	100.0	4.0	10.00	30.00
ASB18062R2MLB-□□□	2.2±20%	55.0	6.8	9.00	22.00
ASB18063R3MLB-□□□	3.3±20%	40.0	9.8	7.60	17.00
ASB18065R6MLB-□□□	5.6±20%	30.0	15.0	6.40	12.80
ASB1806100MLB-□□□	10.0±20%	25.0	25.0	5.30	10.00
ASB1806150MLB-□□□	15.0±20%	17.0	35.0	4.30	8.00
ASB1806220MLB-□□□	22.0±20%	13.0	45.0	3.60	6.70
ASB1806330MLB-□□□	33.0±20%	11.0	68.0	3.00	5.40
ASB1806470MLB-□□□	47.0±20%	9.0	95.0	2.50	4.60
ASB1806680MLB-□□□	68.0±20%	8.0	130.0	2.10	3.80
ASB1806101KLB-□□□	100.0±10%	7.0	190.0	1.70	3.20
ASB1806151KLB-□□□	150.0±10%	5.0	270.0	1.40	2.60
ASB1806221KLB-□□□	220.0±10%	4.5	420.0	1.10	2.20
ASB1806331KLB-□□□	330.0±10%	3.5	580.0	1.00	1.80
ASB1806471KLB-□□□	470.0±10%	3.0	820.0	0.80	1.50
ASB1806681KLB-□□□	680.0±10%	2.5	1200.0	0.70	1.20
ASB1806102KLB-□□□	1000.0±10%	2.0	1800.0	0.50	1.00

1. Electrical specifications at 25°C
2. Inductance Test Freq. at 100kHz / 0.1V
3. Irms base on temperature rise 40°C max.
4. Isat base on ΔL/L0A=10% typ .

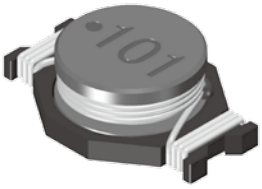
ASB1806 Series

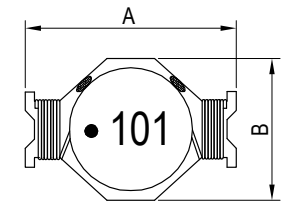


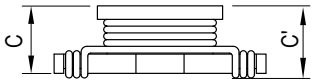


ASB SERIES 2207

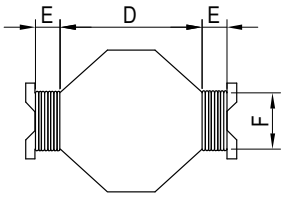
Non-Shielded

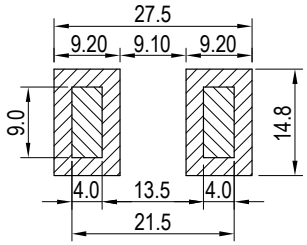






C':
7.4 Max.(5R6~101)
7.6 Max. (2R7~4R7)
7.7 Max. (R80~1R8)





(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F
ASB2207	22.00±0.30	15.00±0.30	7.00±0.40	15.00 typ.	2.30 typ.	8.00 typ.

Features

- Open magnetic circuit structure
- Low DCR values
- High saturation current ratings
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

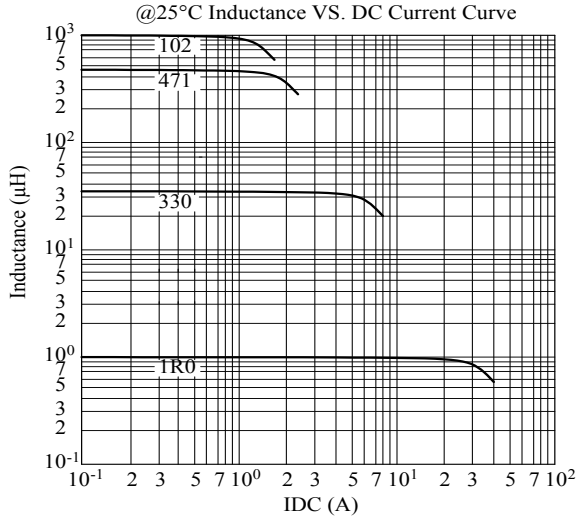
Application

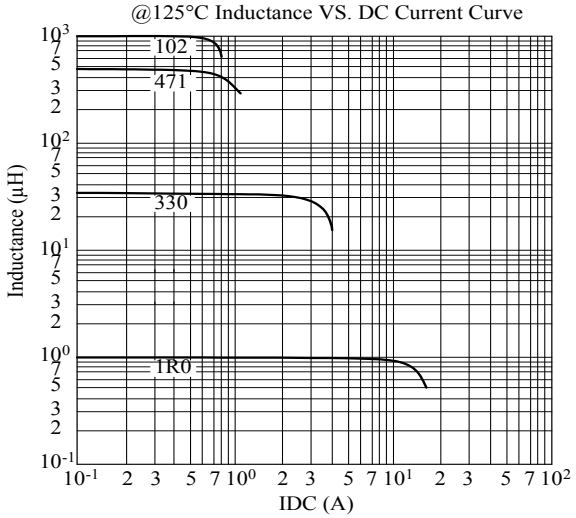
- ADAS
- HVAC
- Infotainment

ASB2207 Series				
DWG. No.	Inductance (μH) 0.1 V / 100 kHz	RDC (mΩ)	Irms (A) max. ΔT = 40°C	Isat (A) typ. ΔL / L0A = 10%
ASB2207R80MLB-□□□	0.80±20%	2.3±20%	16.0	35.0
ASB22071R2MLB-□□□	1.20±20%	3.2±20%	15.0	30.0
ASB22071R8MLB-□□□	1.80±20%	4.5±20%	13.0	25.0
ASB22072R7MLB-□□□	2.70±20%	7.0±20%	10.0	20.0
ASB22073R3MLB-□□□	3.30±20%	7.8±20%	9.0	17.0
ASB22074R7MLB-□□□	4.70±20%	8.8±20%	8.5	15.0
ASB22075R6MLB-□□□	5.60±20%	12.4±20%	7.8	14.0
ASB22076R8MLB-□□□	6.80±20%	14.2±20%	7.5	12.0
ASB22078R2MLB-□□□	8.20±20%	15.5±20%	7.0	11.0
ASB2207100MLB-□□□	10.00±20%	17.2±20%	6.5	10.0
ASB2207120YLB-□□□	12.00±15%	23.6±20%	5.5	9.5
ASB2207150YLB-□□□	15.00±15%	28.8±20%	5.0	9.0
ASB2207180YLB-□□□	18.00±15%	33.0±20%	4.6	8.0
ASB2207220YLB-□□□	22.00±15%	39.4±20%	4.0	6.5
ASB2207270YLB-□□□	27.00±15%	43.5±20%	3.8	6.0
ASB2207330YLB-□□□	33.00±15%	58.4±20%	3.4	5.5
ASB2207390KLB-□□□	39.00±10%	65.0±20%	3.2	5.2
ASB2207470KLB-□□□	47.00±10%	91.2±20%	2.8	5.0
ASB2207560KLB-□□□	56.00±10%	96.5±20%	2.6	4.5
ASB2207680KLB-□□□	68.00±10%	112.0±20%	2.4	4.0
ASB2207820KLB-□□□	82.00±10%	144.0±20%	2.2	3.5
ASB2207101KLB-□□□	100.00±10%	168.0±20%	2.0	3.0

1. Electrical specifications at 25°C
2. Irms base on temperature rise 40°C max.
3. Isat base on ΔL/L0A=10% typ .

ASB2207 Series

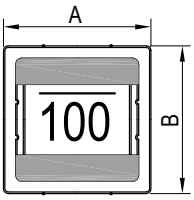


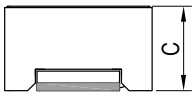


AQS SERIES

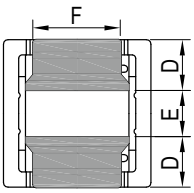
3818 / 4818 / 4828 / 5818 / 5828 / 6822

General





AQS5818
AQS5828
AQS6822



For PCB pattern information, please see page 56

Unit: mm

Series	A	B	C	C'	D	E	F	H
AQS3818	3.80±0.20	3.80±0.20	1.80±0.20		1.30±0.20	1.20±0.20	2.00±0.20	
AQS4818	4.80±0.20	4.80±0.20	1.80±0.20		1.60±0.20	1.60±0.20	2.90±0.20	
AQS4828	4.80±0.20	4.80±0.20	2.80±0.20		1.60±0.20	1.60±0.20	2.90±0.20	
AQS5818	5.80±0.30	5.80±0.30	1.80±0.20	2.20 max.	1.90±0.30	2.00±0.30	3.40±0.20	0.30 min.
AQS5828	5.80±0.30	5.80±0.30	2.80±0.20	3.20 max.	1.90±0.30	2.00±0.30	3.40±0.20	0.30 min.
AQS6822	6.80±0.30	6.80±0.30	2.30±0.20	2.70max.	2.10±0.30	2.60±0.30	4.25±0.20	0.30 min.

Features

- Magnetic shielding allows high-density mounting
- Low profile
- Low RDC
- High current handling capability
- AEC-Q200 Grade 0: AQS4818
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)
- AEC-Q200 Grade 1: AQS3818, AQS4828, AQS5818, AQS5828, AQS6822
- Operating temp.: -40°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- LED lighting
- HVAC
- Infotainment
- BCM

AQS3818 Series							
DWG. No.	Inductance (µH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS38181R0YLB-□□□	1.0±30%	27.5	37.0	165	2.10	2.75	3.60
AQS38181R5YLB-□□□	1.5±30%	33.0	47.0	125	1.60	2.50	3.10
AQS38182R2YLB-□□□	2.2±30%	45.5	60.0	95	1.40	2.00	2.60
AQS38182R7YLB-□□□	2.7±30%	49.5	65.0	90	1.30	1.90	2.50
AQS38183R3YLB-□□□	3.3±30%	64.5	85.0	75	1.15	1.70	2.10
AQS38183R9YLB-□□□	3.9±30%	80.0	105.0	70	1.05	1.60	2.00
AQS38184R7YLB-□□□	4.7±30%	90.0	120.0	60	0.95	1.50	1.90
AQS38186R8YLB-□□□	6.8±30%	125.0	160.0	50	0.80	1.25	1.60
AQS3818100MLB-□□□	10.0±20%	180.0	235.0	40	0.65	1.00	1.30
AQS3818150MLB-□□□	15.0±20%	260.0	340.0	30	0.55	0.80	1.05
AQS3818220MLB-□□□	22.0±20%	395.0	500.0	25	0.43	0.65	0.80
AQS3818330MLB-□□□	33.0±20%	590.0	740.0	20	0.34	0.50	0.65
AQS3818470MLB-□□□	47.0±20%	825.0	1030.0	15	0.30	0.45	0.56
AQS3818680MLB-□□□	68.0±20%	1280.0	1600.0	13	0.24	0.38	0.46
AQS3818101MLB-□□□	100.0±20%	2040.0	2600.0	11	0.20	0.28	0.34
AQS3818221MLB-□□□	220.0±20%	4750.0	5700.0	6	0.16	0.20	0.26

AQS4818 Series							
DWG. No.	Inductance (µH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS48181R0YLB-□□□	1.0±30%	19.2	25.0	140	3.60	4.00	5.10
AQS48181R5YLB-□□□	1.5±30%	25.2	35.0	105	3.00	3.75	4.70
AQS48182R2YLB-□□□	2.2±30%	33.7	45.0	90	2.43	2.70	3.50
AQS48183R3YLB-□□□	3.3±30%	42.8	55.0	70	2.10	2.50	3.10
AQS48183R9YLB-□□□	3.9±30%	54.5	70.0	65	1.90	2.20	2.70
AQS48184R7YLB-□□□	4.7±30%	59.4	80.0	55	1.50	2.00	2.60
AQS48185R6YLB-□□□	5.6±30%	74.3	90.0	50	1.35	1.75	2.30
AQS48186R8YLB-□□□	6.8±30%	82.1	100.0	45	1.25	1.65	2.20
AQS48188R2YLB-□□□	8.2±30%	97.7	130.0	43	1.15	1.55	1.90
AQS4818100MLB-□□□	10.0±20%	109.8	140.0	40	1.05	1.45	1.80
AQS4818120MLB-□□□	12.0±20%	132.2	170.0	37	0.95	1.30	1.60
AQS4818150MLB-□□□	15.0±20%	176.7	220.0	30	0.87	1.25	1.50
AQS4818180MLB-□□□	18.0±20%	214.8	280.0	28	0.79	1.10	1.40
AQS4818220MLB-□□□	22.0±20%	280.3	360.0	25	0.72	1.00	1.25
AQS4818270MLB-□□□	27.0±20%	317.6	400.0	22	0.63	0.90	1.15
AQS4818330MLB-□□□	33.0±20%	399.1	500.0	20	0.56	0.70	0.90
AQS4818390MLB-□□□	39.0±20%	439.3	540.0	17	0.53	0.63	0.80
AQS4818470MLB-□□□	47.0±20%	504.1	630.0	16	0.47	0.60	0.75

AQS4828 Series							
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS48281R2YLB-□□□	1.2±30%	18.5	24.0	155.0	3.00	3.50	5.00
AQS48281R8YLB-□□□	1.8±30%	22.7	30.0	105.0	2.50	3.00	4.60
AQS48282R7YLB-□□□	2.7±30%	26.2	34.0	80.0	2.20	2.50	4.00
AQS48283R9YLB-□□□	3.9±30%	36.3	47.0	60.0	1.80	2.20	3.40
AQS48284R7YLB-□□□	4.7±30%	41.4	54.0	50.0	1.60	2.10	3.00
AQS48286R8YLB-□□□	6.8±30%	57.0	74.0	40.0	1.30	1.65	2.60
AQS48288R2YLB-□□□	8.2±30%	66.8	87.0	35.0	1.25	1.60	2.40
AQS4828100MLB-□□□	10.0±20%	76.4	100.0	30.0	1.10	1.50	2.30
AQS4828120MLB-□□□	12.0±20%	100.0	125.0	27.0	0.95	1.35	2.00
AQS4828150MLB-□□□	15.0±20%	108.8	145.0	25.0	0.92	1.30	1.80
AQS4828180MLB-□□□	18.0±20%	125.0	160.0	22.0	0.80	1.20	1.70
AQS4828220MLB-□□□	22.0±20%	145.9	185.0	20.0	0.68	1.10	1.55
AQS4828330MLB-□□□	33.0±20%	208.2	260.0	15.0	0.60	0.90	1.40
AQS4828470MLB-□□□	47.0±20%	215.0	270.0	13.0	0.47	0.88	1.20
AQS4828560MLB-□□□	56.0±20%	260.4	320.0	12.0	0.40	0.85	1.05
AQS4828680MLB-□□□	68.0±20%	294.3	370.0	11.0	0.38	0.80	0.90
AQS4828820MLB-□□□	82.0±20%	381.9	480.0	10.0	0.35	0.70	0.85
AQS4828101MLB-□□□	100.0±20%	495.3	600.0	8.5	0.33	0.65	0.70
AQS4828121MLB-□□□	120.0±20%	630.0	760.0	8.0	0.30	0.50	0.65
AQS4828151MLB-□□□	150.0±20%	713.9	860.0	7.0	0.28	0.45	0.60
AQS4828181MLB-□□□	180.0±20%	899.1	1080.0	6.0	0.26	0.43	0.55
AQS4828221MLB-□□□	220.0±20%	1000.7	1250.0	5.5	0.24	0.41	0.50

AQS5818 Series							
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS58181R5YLB-□□□	1.5±30%	24.0	31.0	100.0	3.90	3.00	4.80
AQS58182R0YLB-□□□	2.0±30%	33.0	43.0	83.0	3.20	2.50	3.50
AQS58183R0YLB-□□□	3.0±30%	58.0	75.0	73.0	2.70	1.90	2.65
AQS58183R9YLB-□□□	3.9±30%	72.0	94.0	63.0	2.40	1.70	2.40
AQS58185R0YLB-□□□	5.0±30%	83.0	108.0	56.0	2.10	1.60	2.20
AQS58186R2YLB-□□□	6.2±30%	95.0	123.0	51.0	1.90	1.50	2.00
AQS58187R5YLB-□□□	7.5±30%	115.0	152.0	43.0	1.75	1.35	1.70
AQS58189R0YLB-□□□	9.0±30%	140.0	185.0	38.0	1.60	1.20	1.60
AQS5818100MLB-□□□	10.0±20%	180.0	235.0	30.0	1.45	1.10	1.50
AQS5818120MLB-□□□	12.0±20%	195.0	250.0	29.0	1.35	1.00	1.45
AQS5818150MLB-□□□	15.0±20%	230.0	300.0	25.0	1.20	0.90	1.30
AQS5818180MLB-□□□	18.0±20%	280.0	365.0	23.0	1.15	0.85	1.20
AQS5818220MLB-□□□	22.0±20%	365.0	475.0	21.0	0.98	0.75	1.05
AQS5818270MLB-□□□	27.0±20%	410.0	510.0	20.0	0.90	0.70	0.95
AQS5818330MLB-□□□	33.0±20%	455.0	570.0	18.0	0.83	0.65	0.90
AQS5818390MLB-□□□	39.0±20%	570.0	710.0	15.0	0.75	0.60	0.85
AQS5818470MLB-□□□	47.0±20%	650.0	810.0	14.0	0.68	0.57	0.80
AQS5818560MLB-□□□	56.0±20%	700.0	875.0	13.0	0.63	0.55	0.75
AQS5818680MLB-□□□	68.0±20%	965.0	1205.0	11.0	0.56	0.47	0.58
AQS5818820MLB-□□□	82.0±20%	1135.0	1420.0	10.0	0.52	0.43	0.55
AQS5818101MLB-□□□	100.0±20%	1515.0	1890.0	9.0	0.47	0.37	0.52
AQS5818121MLB-□□□	120.0±20%	1690.0	2110.0	8.0	0.42	0.35	0.50
AQS5818151MLB-□□□	150.0±20%	2140.0	2675.0	7.0	0.38	0.31	0.44
AQS5818181MLB-□□□	180.0±20%	2700.0	3245.0	6.0	0.34	0.28	0.35
AQS5818221MLB-□□□	220.0±20%	3400.0	4080.0	5.0	0.32	0.24	0.33

• All specifications are subject to change without notice.

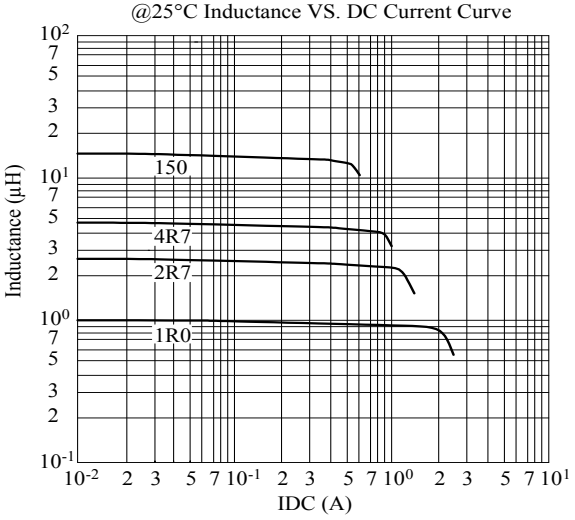
AQS5828 Series							
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS58282R6YLB-□□□	2.6±30%	23.0	30.0	78.0	3.15	3.25	4.50
AQS58283R3YLB-□□□	3.3±30%	27.0	35.0	70.0	2.80	3.20	4.40
AQS58284R7YLB-□□□	4.7±30%	31.0	40.0	48.0	2.57	3.00	4.00
AQS58285R3YLB-□□□	5.3±30%	35.0	42.0	46.0	2.20	2.80	3.80
AQS58286R2YLB-□□□	6.2±30%	45.0	57.0	41.0	2.10	2.60	3.50
AQS58288R2YLB-□□□	8.2±30%	49.0	63.0	37.0	1.62	2.30	3.00
AQS5828100MLB-□□□	10.0±20%	64.0	83.0	32.0	1.55	2.00	2.60
AQS5828120MLB-□□□	12.0±20%	76.0	100.0	25.0	1.50	1.85	2.50
AQS5828150MLB-□□□	15.0±20%	90.0	115.0	25.0	1.35	1.70	2.25
AQS5828180MLB-□□□	18.0±20%	100.0	130.0	22.0	1.30	1.60	2.15
AQS5828220MLB-□□□	22.0±20%	125.0	160.0	19.0	1.15	1.35	1.75
AQS5828270MLB-□□□	27.0±20%	147.0	180.0	18.0	1.05	1.25	1.65
AQS5828330MLB-□□□	33.0±20%	190.0	230.0	15.0	0.92	1.10	1.40
AQS5828390MLB-□□□	39.0±20%	200.0	260.0	14.0	0.86	1.05	1.37
AQS5828470MLB-□□□	47.0±20%	247.0	305.0	13.0	0.78	1.00	1.33
AQS5828560MLB-□□□	56.0±20%	315.0	395.0	11.0	0.70	0.85	1.13
AQS5828680MLB-□□□	68.0±20%	375.0	470.0	10.0	0.65	0.80	1.03
AQS5828820MLB-□□□	82.0±20%	425.0	530.0	9.0	0.60	0.73	0.95
AQS5828101MLB-□□□	100.0±20%	550.0	645.0	8.0	0.53	0.60	0.80
AQS5828151MLB-□□□	150.0±20%	770.0	910.0	7.0	0.45	0.55	0.70
AQS5828181MLB-□□□	180.0±20%	940.0	1100.0	5.5	0.42	0.48	0.64
AQS5828221MLB-□□□	220.0±20%	1095.0	1200.0	5.0	0.37	0.45	0.62
AQS5828331MLB-□□□	330.0±20%	1830.0	2100.0	4.0	0.30	0.35	0.46
AQS5828681MLB-□□□	680.0±20%	4170.0	4800.0	3.0	0.21	0.23	0.31
AQS5828102MLB-□□□	1000.0±20%	6360.0	7300.0	2.0	0.13	0.15	0.21

AQS6822 Series							
DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
		typ.	max.				
AQS68221R0YLB-□□□	1.0±30%	15.0	19.0	109.0	4.40	4.20	5.80
AQS68221R5YLB-□□□	1.5±30%	17.0	22.0	77.0	3.50	3.70	5.00
AQS68222R2YLB-□□□	2.2±30%	21.0	27.0	72.0	2.70	3.40	4.80
AQS68223R3YLB-□□□	3.3±30%	25.0	33.0	62.0	2.40	3.00	4.30
AQS68225R0YLB-□□□	5.0±30%	38.0	50.0	48.0	2.00	2.60	3.60
AQS68226R2YLB-□□□	6.2±30%	44.0	57.0	42.0	1.70	2.40	3.40
AQS68227R5YLB-□□□	7.5±30%	49.0	64.0	36.0	1.55	2.30	3.20
AQS6822100MLB-□□□	10.0±20%	68.0	88.0	33.0	1.35	2.00	2.70
AQS6822120MLB-□□□	12.0±20%	70.0	90.0	32.0	1.25	1.90	2.65
AQS6822150MLB-□□□	15.0±20%	84.0	110.0	23.0	1.10	1.70	2.45
AQS6822180MLB-□□□	18.0±20%	100.0	130.0	22.0	1.00	1.60	2.25
AQS6822220MLB-□□□	22.0±20%	126.0	165.0	21.0	0.95	1.40	2.00
AQS6822270MLB-□□□	27.0±20%	167.0	220.0	19.0	0.80	1.25	1.75
AQS6822330MLB-□□□	33.0±20%	200.0	235.0	18.0	0.75	1.10	1.60
AQS6822390MLB-□□□	39.0±20%	232.0	285.0	15.0	0.64	1.05	1.50
AQS6822470MLB-□□□	47.0±20%	283.0	345.0	14.0	0.60	0.95	1.35
AQS6822560MLB-□□□	56.0±20%	314.0	390.0	13.0	0.56	0.85	1.20
AQS6822680MLB-□□□	68.0±20%	391.0	480.0	12.0	0.52	0.80	1.15
AQS6822820MLB-□□□	82.0±20%	437.0	540.0	10.0	0.45	0.77	1.10
AQS6822101MLB-□□□	100.0±20%	560.0	680.0	9.5	0.42	0.67	0.95
AQS6822121MLB-□□□	120.0±20%	628.0	760.0	8.0	0.39	0.58	0.82
AQS6822151MLB-□□□	150.0±20%	945.0	1100.0	7.5	0.34	0.52	0.73
AQS6822181MLB-□□□	180.0±20%	1026.0	1200.0	7.0	0.31	0.48	0.68
AQS6822221MLB-□□□	220.0±20%	1170.0	1380.0	5.5	0.28	0.46	0.65
AQS6822271MLB-□□□	270.0±20%	1510.0	1770.0	5.2	0.24	0.40	0.55
AQS6822331MLB-□□□	330.0±20%	1676.0	2000.0	5.0	0.23	0.36	0.51
AQS6822391MLB-□□□	390.0±20%	2178.0	2600.0	4.8	0.21	0.32	0.46
AQS6822471MLB-□□□	470.0±20%	2693.0	3200.0	4.0	0.19	0.30	0.42
AQS6822561MLB-□□□	560.0±20%	3019.0	3580.0	3.8	0.18	0.27	0.39
AQS6822681MLB-□□□	680.0±20%	3599.0	4300.0	3.2	0.16	0.26	0.36
AQS6822821MLB-□□□	820.0±20%	4639.0	5500.0	3.0	0.14	0.23	0.32
AQS6822102MLB-□□□	1000.0±20%	5742.0	6850.0	2.6	0.13	0.20	0.28

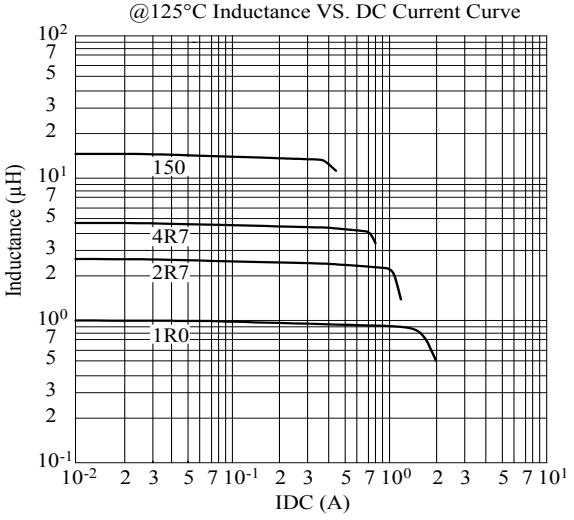
1. Electrical specifications at 25°C
2. Inductance test condition:100kHz / 0.1V
3. Isat base on ΔL/L0A=35% typ.
4. Irms1 base on Temp. rise 20°C typ.
5. Irms2 base on Temp. rise 40°C typ

AQS3818 Series

@25°C Inductance VS. DC Current Curve

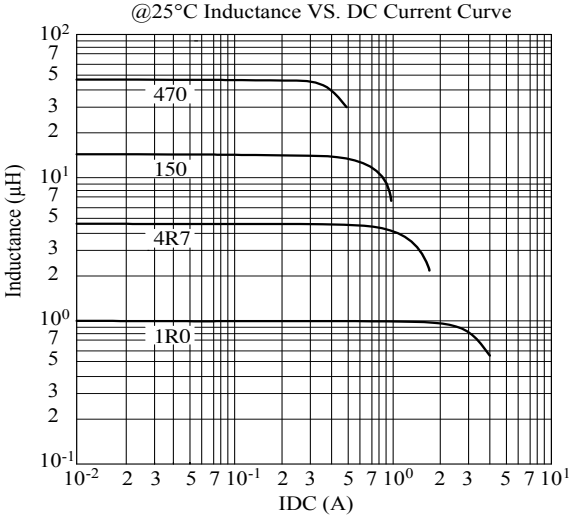


@125°C Inductance VS. DC Current Curve

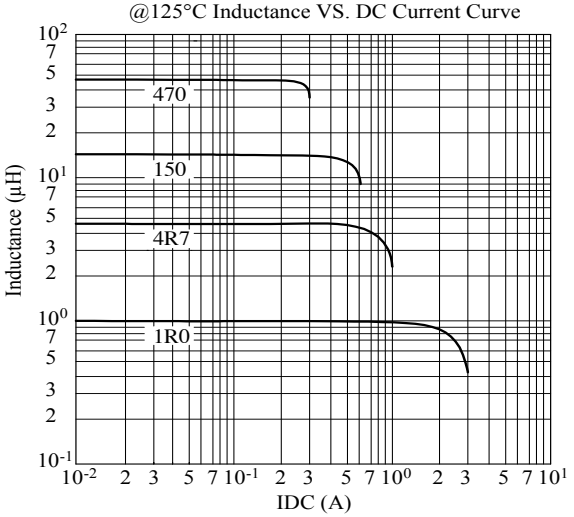


AQS4818 Series

@25°C Inductance VS. DC Current Curve

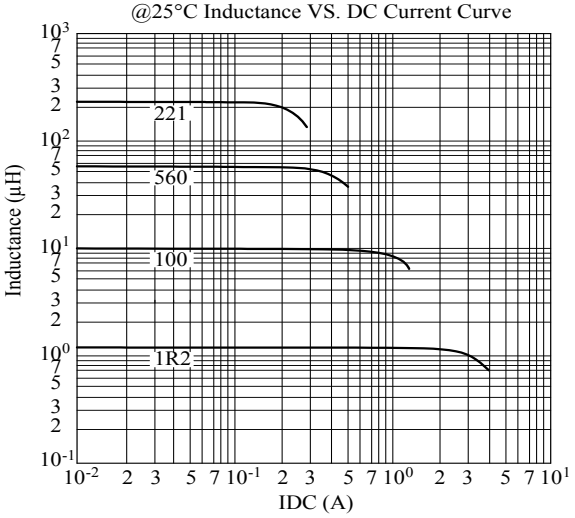


@125°C Inductance VS. DC Current Curve

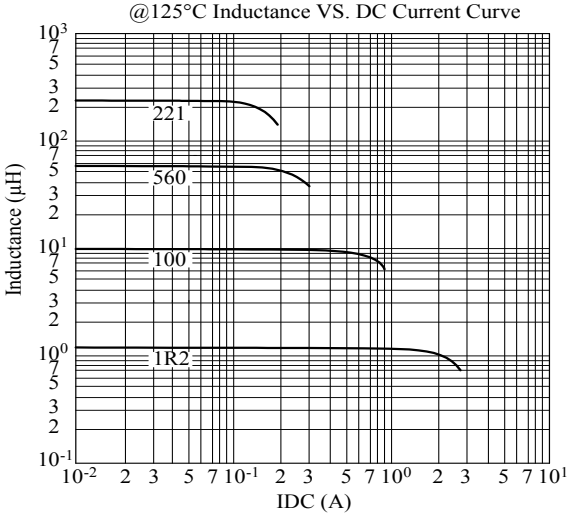


AQS4828 Series

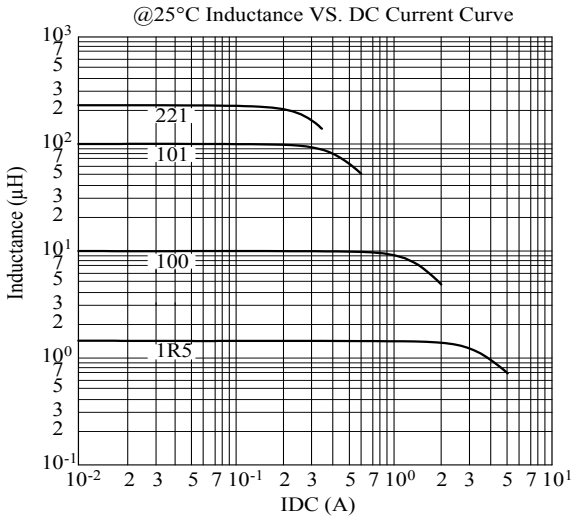
@25°C Inductance VS. DC Current Curve

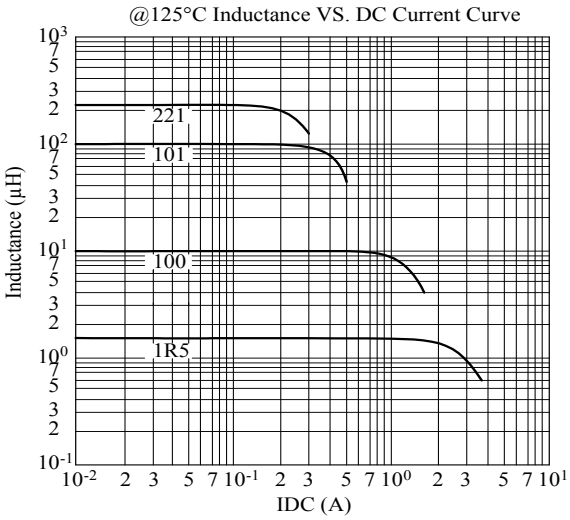


@125°C Inductance VS. DC Current Curve

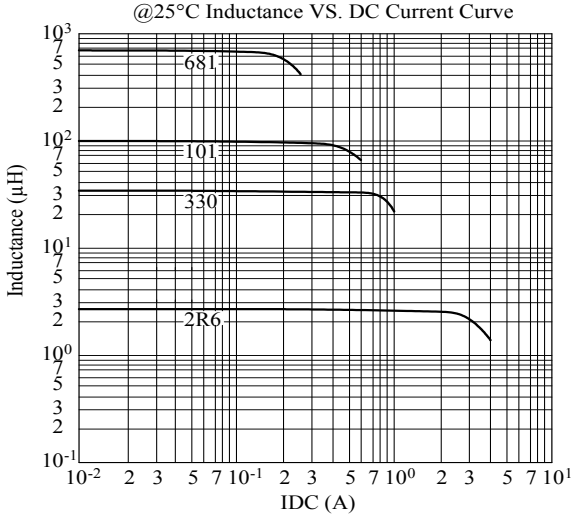


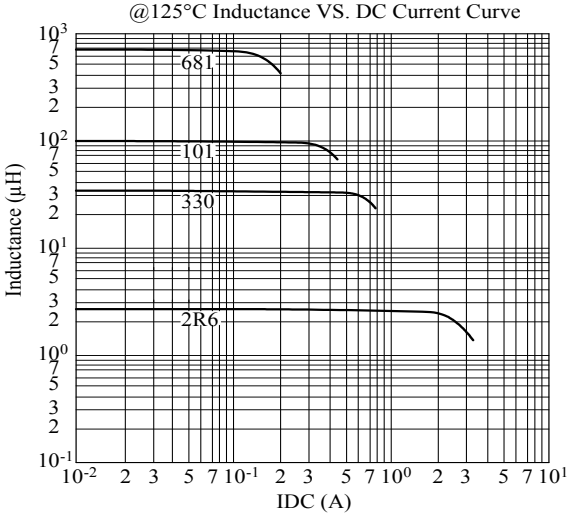
AQS5818 Series



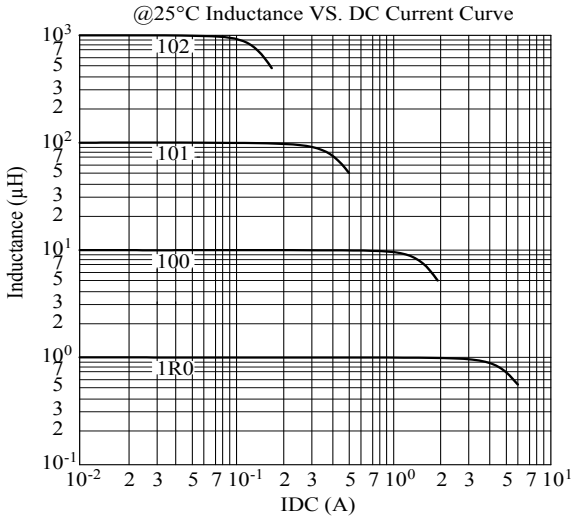


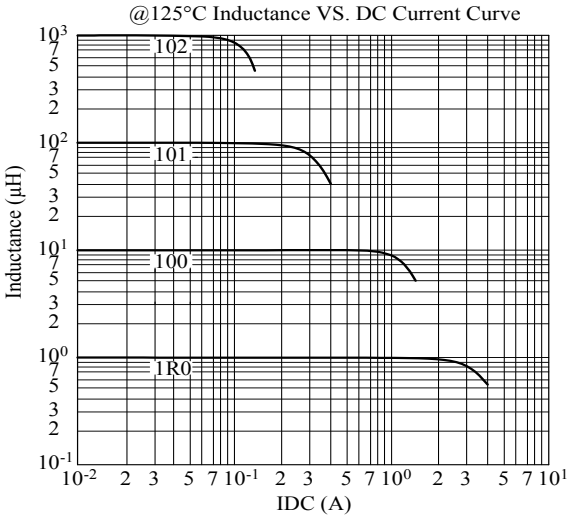
AQS5828 Series



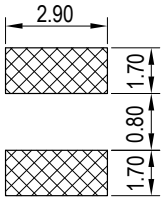


AQS6822 Series

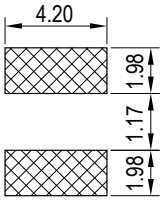




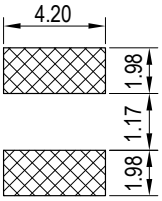
PCB Pattern



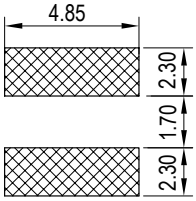
AQS3818



AQS4818



AQS4828



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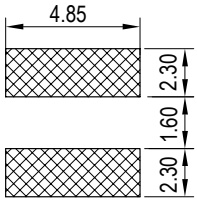

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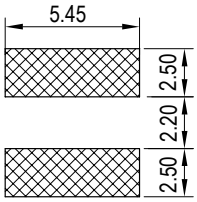
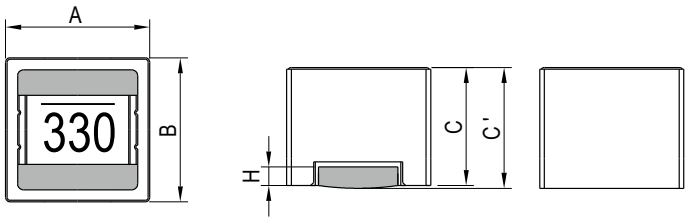


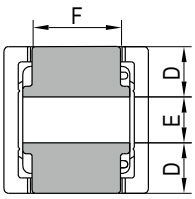
AQS6822

MQS SERIES

3228 / 5228 / 6828

General





For PCB pattern information, please see page 60

Unit: mm

Series	A	B	C	C'	D	E	F	H
MQS3228	3.30±0.20	3.30±0.20	2.80±0.20	3.20 max.	1.10±0.20	1.00±0.20	1.50±0.20	0.30 min.
MQS5228	5.20±0.20	5.20±0.20	2.80±0.20	3.20 max.	1.60±0.20	1.90±0.20	3.30±0.20	0.30 min.
MQS6828	6.80±0.30	6.80±0.30	2.80±0.20	3.20 max.	2.10±0.30	2.60±0.30	4.25±0.20	0.30 min.

Features

- Magnetic shielding allows high-density mounting
- Low profile
- Low RDC
- High current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

- LED lighting
- HVAC
- Infotainment
- BCM

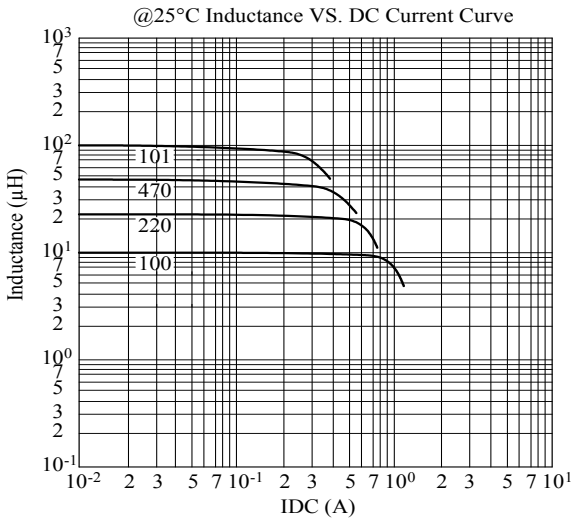
MQS3228 Series							
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω)		Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
			typ.	max.			
MQS3228100YLB-□□□	10.0±30%	30.0	0.180	0.200	0.90	0.80	1.10
MQS3228150YLB-□□□	15.0±30%	25.0	0.240	0.290	0.75	0.70	0.90
MQS3228220YLB-□□□	22.0±30%	20.0	0.300	0.335	0.62	0.60	0.80
MQS3228330YLB-□□□	33.0±30%	15.0	0.450	0.560	0.50	0.52	0.68
MQS3228470YLB-□□□	47.0±30%	10.0	0.760	0.950	0.42	0.40	0.52
MQS3228680YLB-□□□	68.0±30%	8.0	1.400	1.750	0.35	0.30	0.38
MQS3228101YLB-□□□	100.0±30%	6.0	2.000	2.550	0.29	0.24	0.30

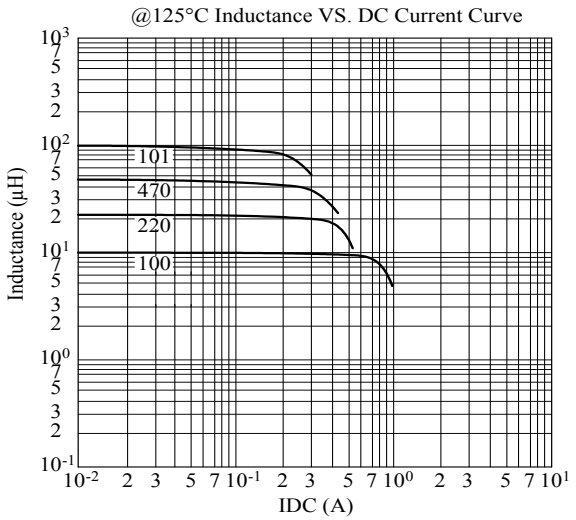
MQS5228 Series							
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω)		Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
			typ.	max.			
MQS52281R2YLB-□□□	1.2±30%	170.0	14.0	22.0	4.30	3.90	5.20
MQS52282R2YLB-□□□	2.2±30%	95.0	21.0	27.0	3.10	3.10	4.10
MQS52283R3YLB-□□□	3.3±30%	70.0	27.0	32.0	2.30	2.80	3.60
MQS52284R7YLB-□□□	4.7±30%	55.0	35.0	45.0	2.00	2.45	3.20
MQS52286R8YLB-□□□	6.8±30%	40.0	45.0	56.0	1.80	2.20	2.80
MQS5228100MLB-□□□	10.0±20%	28.0	69.0	85.0	1.45	1.70	2.30
MQS5228150MLB-□□□	15.0±20%	23.0	106.0	140.0	1.25	1.40	1.80
MQS5228220MLB-□□□	22.0±20%	18.0	150.0	193.0	1.00	1.30	1.70
MQS5228330MLB-□□□	33.0±20%	14.0	204.0	260.0	0.84	1.00	1.30
MQS5228470MLB-□□□	47.0±20%	12.0	295.0	360.0	0.70	0.84	1.10
MQS5228680MLB-□□□	68.0±20%	10.0	445.0	550.0	0.57	0.65	0.90
MQS5228101MLB-□□□	100.0±20%	8.0	650.0	800.0	0.47	0.57	0.70
MQS5228121MLB-□□□	120.0±20%	6.0	860.0	1100.0	0.43	0.49	0.65
MQS5228151MLB-□□□	150.0±20%	5.5	1180.0	1470.0	0.39	0.42	0.55
MQS5228181MLB-□□□	180.0±20%	5.0	1240.0	1550.0	0.35	0.40	0.52
MQS5228221MLB-□□□	220.0±20%	4.5	1650.0	2000.0	0.32	0.35	0.46
MQS5228271MLB-□□□	270.0±20%	4.0	2100.0	2500.0	0.29	0.32	0.42
MQS5228331MLB-□□□	330.0±20%	3.7	2600.0	3200.0	0.26	0.27	0.36
MQS5228391MLB-□□□	390.0±20%	3.3	2800.0	3400.0	0.24	0.26	0.35
MQS5228471MLB-□□□	470.0±20%	3.0	3600.0	4300.0	0.22	0.24	0.31
MQS5228561MLB-□□□	560.0±20%	2.7	3900.0	4700.0	0.20	0.22	0.28
MQS5228681MLB-□□□	680.0±20%	2.6	4700.0	5700.0	0.18	0.20	0.26
MQS5228821MLB-□□□	820.0±20%	2.2	6600.0	7900.0	0.16	0.17	0.22
MQS5228102MLB-□□□	1000.0±20%	2.1	7200.0	8700.0	0.15	0.16	0.21

MQS6828 Series							
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω)		Isat (A) typ.	Irms1 (A) typ.	Irms2 (A) typ.
			typ.	max.			
MQS68282R5YLB-□□□	2.5±30%	77.0	23.0	30.0	3.40	4.50	4.90
MQS68283R3YLB-□□□	3.3±30%	63.0	25.0	33.0	3.00	3.30	4.70
MQS68284R3YLB-□□□	4.3±30%	55.0	33.0	43.0	2.60	2.80	4.00
MQS68285R0YLB-□□□	5.0±30%	48.0	38.0	48.0	2.30	2.65	3.80
MQS68286R4YLB-□□□	6.4±30%	42.0	46.0	60.0	2.10	2.35	3.40
MQS68287R7YLB-□□□	7.7±30%	37.0	54.0	70.0	1.90	2.20	3.20
MQS6828100MLB-□□□	10.0±20%	33.0	64.0	84.0	1.75	2.15	2.90
MQS6828150MLB-□□□	15.0±20%	24.0	113.0	145.0	1.40	1.60	2.20
MQS6828220MLB-□□□	22.0±20%	20.0	141.0	180.0	1.15	1.50	2.00
MQS6828330MLB-□□□	33.0±20%	15.0	170.0	205.0	0.92	1.40	1.80
MQS6828470MLB-□□□	47.0±20%	13.0	240.0	290.0	0.80	1.00	1.40
MQS6828680MLB-□□□	68.0±20%	10.0	340.0	410.0	0.67	0.90	1.20
MQS6828101MLB-□□□	100.0±20%	8.0	460.0	555.0	0.55	0.80	1.00
MQS6828151MLB-□□□	150.0±20%	6.0	740.0	890.0	0.44	0.60	0.80
MQS6828221MLB-□□□	220.0±20%	5.5	1057.0	1200.0	0.36	0.45	0.60
MQS6828331MLB-□□□	330.0±20%	4.5	1510.0	1740.0	0.30	0.40	0.55
MQS6828471MLB-□□□	470.0±20%	3.5	2210.0	2540.0	0.25	0.30	0.45
MQS6828681MLB-□□□	680.0±20%	3.0	3180.0	3560.0	0.21	0.25	0.35
MQS6828102MLB-□□□	1000.0±20%	2.5	4070.0	4480.0	0.17	0.20	0.30

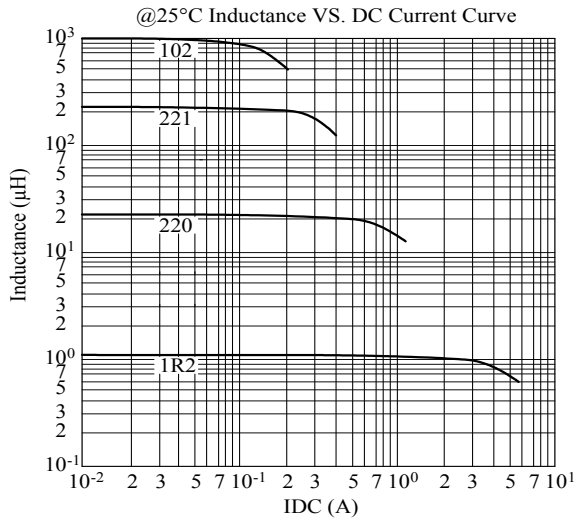
1. Electrical specifications at 25°C
2. Inductance Test condition: 100kHz /0.1V
3. Isatbaseon ΔL/L0A=35%typ.
4. Irms1 base on Temp. rise 20°C typ.
5. Irms2 base on Temp. rise 40°C typ.

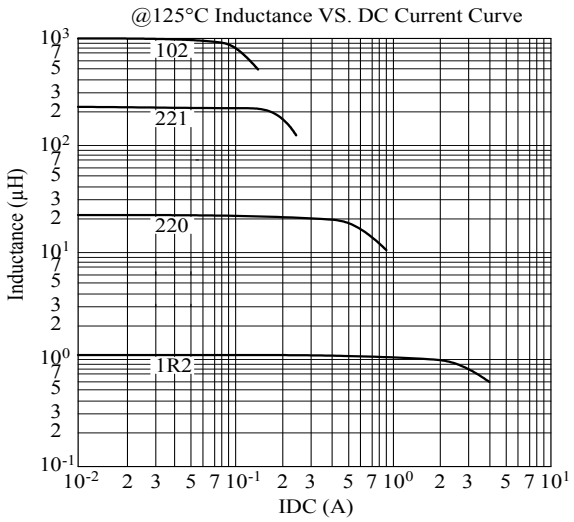
MQS3228 Series



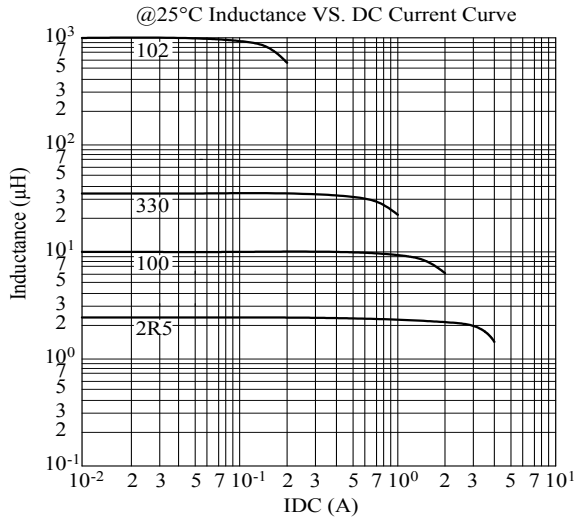


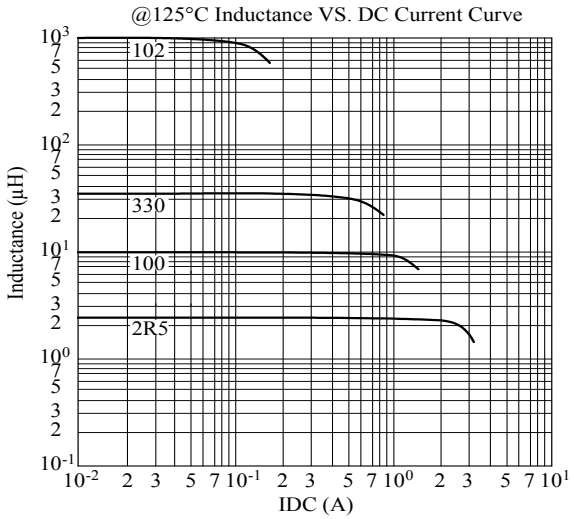
MQS5228 Series



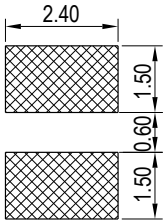


MQS6828 Series

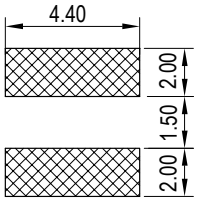




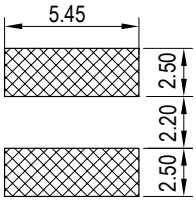
PCB Pattern



MQS3228



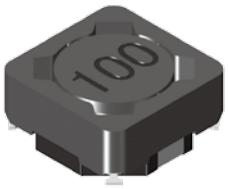
MQS5228

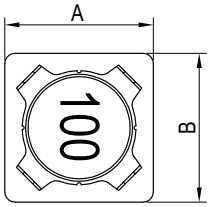


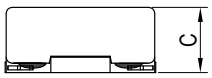
MQS6828

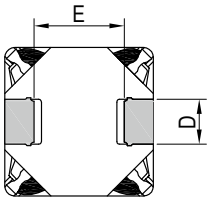
MBS SERIES 0703 / 0704

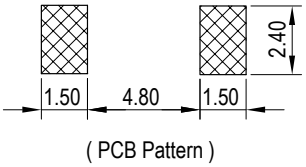
General











(PCB Pattern)

Unit: mm

Series	A	B	C	D	E
MBS0703	7.30±0.20	7.30±0.20	3.50±0.20	2.00±0.20	4.60±0.20
MBS0704	7.30±0.20	7.30±0.20	4.50±0.20	2.00±0.20	4.60±0.20

Features

- Low RDC
- High current handling capability
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

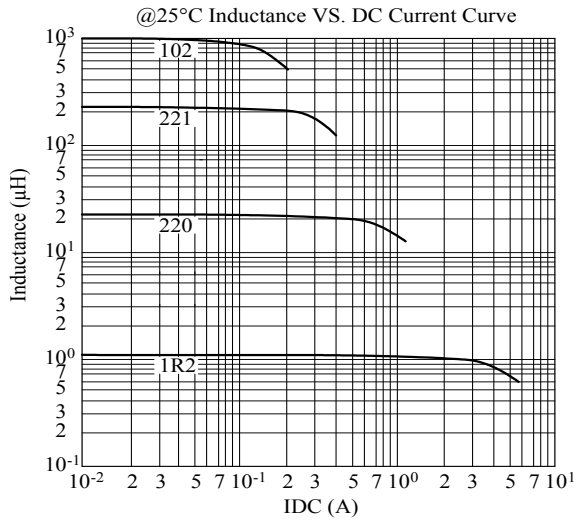
- LED lighting
- HVAC
- Infotainment
- BCM

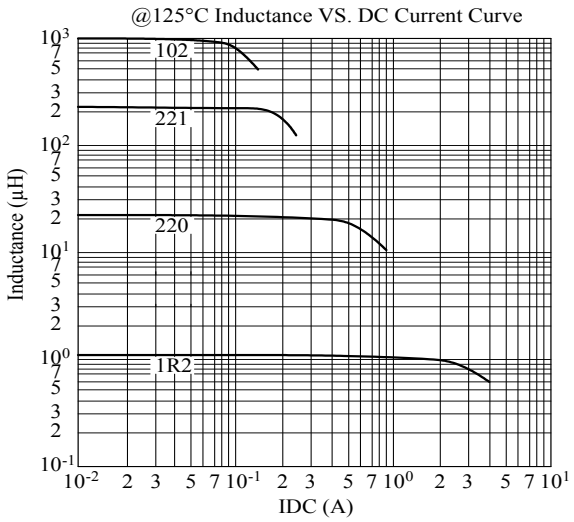
MBS0703 Series					
DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	Isat (A)	Irms (A)
MBS0703100MSB-□□□	10.0±20%	1k/1V	0.072	1.85	2.10
MBS0703120MSB-□□□	12.0±20%	1k/1V	0.085	1.60	1.90
MBS0703150MSB-□□□	15.0±20%	1k/1V	0.105	1.52	1.60
MBS0703180MSB-□□□	18.0±20%	1k/1V	0.125	1.40	1.40
MBS0703220MSB-□□□	22.0±20%	1k/1V	0.160	1.28	1.20
MBS0703270MSB-□□□	27.0±20%	1k/1V	0.185	1.15	1.10
MBS0703330MSB-□□□	33.0±20%	1k/1V	0.220	1.04	1.00
MBS0703390MSB-□□□	39.0±20%	1k/1V	0.250	0.96	0.95
MBS0703470MSB-□□□	47.0±20%	1k/1V	0.320	0.88	0.85
MBS0703560MSB-□□□	56.0±20%	1k/1V	0.350	0.80	0.78
MBS0703680MSB-□□□	68.0±20%	1k/1V	0.400	0.74	0.72
MBS0703820MSB-□□□	82.0±20%	1k/1V	0.480	0.65	0.63
MBS0703101MSB-□□□	100.0±20%	1k/1V	0.630	0.60	0.54
MBS0703121MSB-□□□	120.0±20%	1k/1V	0.720	0.55	0.53
MBS0703151MSB-□□□	150.0±20%	1k/1V	0.930	0.48	0.47
MBS0703181MSB-□□□	180.0±20%	1k/1V	1.150	0.45	0.43
MBS0703221MSB-□□□	220.0±20%	1k/1V	1.320	0.42	0.40
MBS0703271MSB-□□□	270.0±20%	1k/1V	1.700	0.38	0.37
MBS0703331MSB-□□□	330.0±20%	1k/1V	2.000	0.33	0.33
MBS0703391MSB-□□□	390.0±20%	1k/1V	2.300	0.30	0.30
MBS0703471MSB-□□□	470.0±20%	1k/1V	2.800	0.27	0.26
MBS0703561MSB-□□□	560.0±20%	1k/1V	3.500	0.25	0.23
MBS0703681MSB-□□□	680.0±20%	1k/1V	4.000	0.22	0.21
MBS0703821MSB-□□□	820.0±20%	1k/1V	5.200	0.21	0.19
MBS0703102MSB-□□□	1000.0±20%	1k/1V	5.800	0.18	0.17

MBS0704 Series					
DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	Isat (A)	Irms (A)
MBS0704100MSB-□□□	10.0±20%	1k/1V	0.052	2.50	2.10
MBS0704120MSB-□□□	12.0±20%	1k/1V	0.062	2.30	2.00
MBS0704150MSB-□□□	15.0±20%	1k/1V	0.075	2.10	1.90
MBS0704180MSB-□□□	18.0±20%	1k/1V	0.090	1.95	1.80
MBS0704220MSB-□□□	22.0±20%	1k/1V	0.096	1.75	1.65
MBS0704270MSB-□□□	27.0±20%	1k/1V	0.130	1.62	1.45
MBS0704330MSB-□□□	33.0±20%	1k/1V	0.150	1.45	1.35
MBS0704390MSB-□□□	39.0±20%	1k/1V	0.190	1.30	1.17
MBS0704470MSB-□□□	47.0±20%	1k/1V	0.210	1.20	1.05
MBS0704560MSB-□□□	56.0±20%	1k/1V	0.240	1.10	0.95
MBS0704680MSB-□□□	68.0±20%	1k/1V	0.300	0.96	0.86
MBS0704820MSB-□□□	82.0±20%	1k/1V	0.400	0.90	0.78
MBS0704101MSB-□□□	100.0±20%	1k/1V	0.450	0.78	0.70
MBS0704121MSB-□□□	120.0±20%	1k/1V	0.550	0.70	0.60
MBS0704151MSB-□□□	150.0±20%	1k/1V	0.760	0.58	0.48
MBS0704181MSB-□□□	180.0±20%	1k/1V	0.820	0.54	0.46
MBS0704221MSB-□□□	220.0±20%	1k/1V	0.950	0.50	0.42
MBS0704271MSB-□□□	270.0±20%	1k/1V	1.200	0.46	0.38
MBS0704331MSB-□□□	330.0±20%	1k/1V	1.500	0.40	0.34
MBS0704391MSB-□□□	390.0±20%	1k/1V	1.850	0.36	0.32
MBS0704471MSB-□□□	470.0±20%	1k/1V	2.200	0.34	0.29
MBS0704561MSB-□□□	560.0±20%	1k/1V	2.600	0.30	0.26
MBS0704681MSB-□□□	680.0±20%	1k/1V	2.800	0.28	0.24
MBS0704821MSB-□□□	820.0±20%	1k/1V	3.500	0.26	0.22
MBS0704102MSB-□□□	1000.0±20%	1k/1V	4.100	0.24	0.20

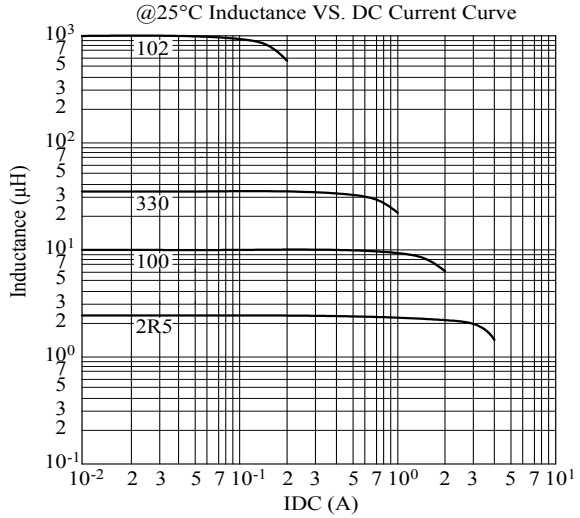
1. Electrical specifications at 25°C
2. Inductance Test condition: 1kHz /1V
3. Isatbaseon ΔL/L0A=25%typ.
4. Irms base on Temp. rise 40°C typ.

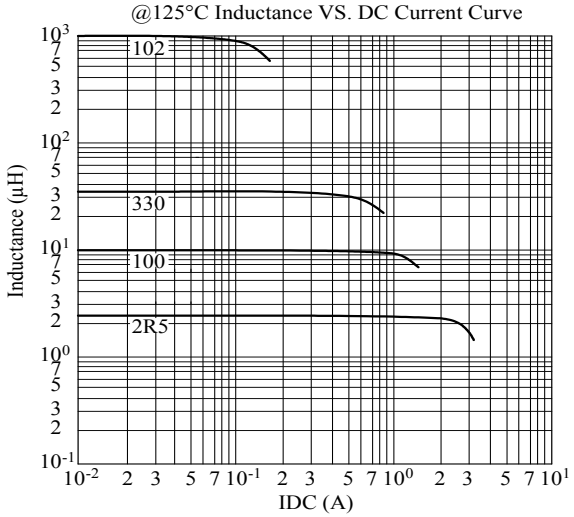
MBS0703 Series





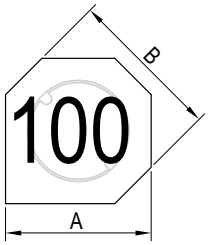
MBS0704 Series

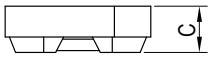


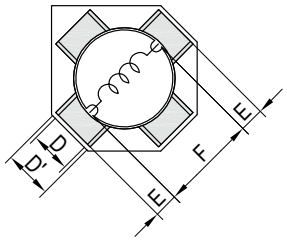


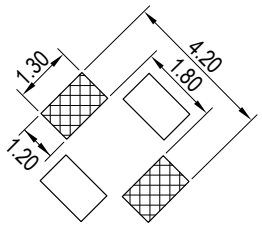
ASU SERIES 3028

General









(PCB Pattern)

Unit: mm

Series	A	B	C	D	D'	E	F
ASU3028	3.30±0.20	3.50±0.20	2.80±0.20	1.10 typ.	1.30±0.30	0.50 typ.	2.30 typ.

Features

- Magnetic shielding allows high-density mounting
- Low profile
- Low RDC
- High current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

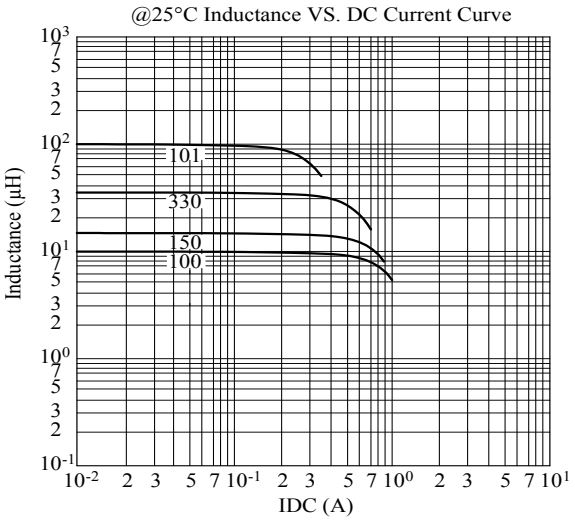
Application

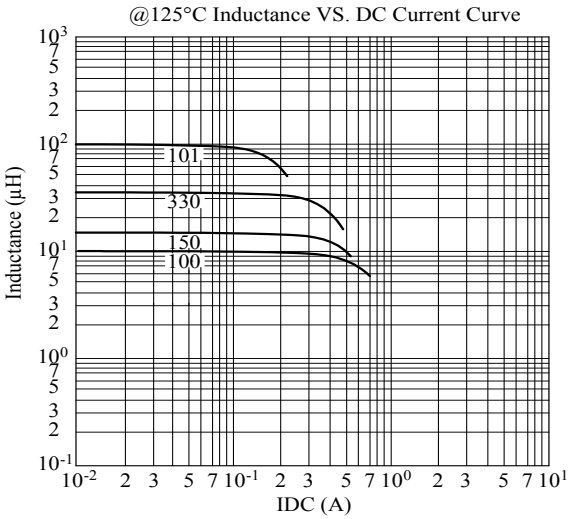
- LED lighting
- HVAC
- Infotainment
- BCM

ASU3028 Series									
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (mΩ)		SRF (MHz) typ.	Irms (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
ASU3028100YL□-□□□	10.0±30%	20	100k	2.52M	160	200	35	720	860
ASU3028150YL□-□□□	15.0±30%	18	100k	2.52M	230	290	25	660	720
ASU3028220YL□-□□□	22.0±30%	18	100k	2.52M	270	335	15	600	620
ASU3028330YL□-□□□	33.0±30%	20	100k	2.52M	450	560	10	470	480
ASU3028470YL□-□□□	47.0±30%	20	100k	2.52M	815	1000	8	320	380

1. Electrical specifications at 25°C
2. Inductance Test Freq.: 100kHz / 0.1V
3. Isat base on ΔL / L0A=35% typ.
4. Irms base on Temp. rise 40°C typ.

ASU3028 Series

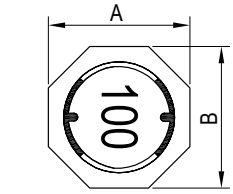


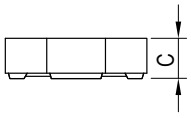


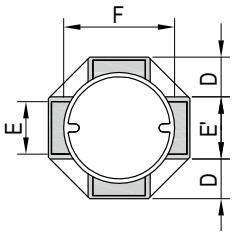
ASU SERIES

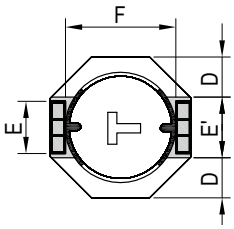
5028 / 6025 / 8028 / 8030 / 8040 / 8045 / 8058 / 1028 / 1030 / 1038 / 1040 / 1048 / 1050 / 1065

General









ASU8028 / ASU1028
ASU1038 / ASU1048

For PCB pattern information, please see page 80

Unit: mm

Series	A	B	C	D	E	E'	F
ASU5028	5.20±0.20	5.20±0.20	2.80±0.20	1.40 typ.	1.80 typ.	2.40±0.40	3.90 typ.
ASU6025	6.20±0.30	6.50±0.30	2.50±0.30	2.00 typ.	2.20 typ.	2.60±0.50	4.90 typ.
ASU8028	8.00±0.30	8.00±0.30	2.80±0.30	2.20 typ.	2.80 typ.	3.70±0.50	6.00 typ.
ASU8030	8.00±0.30	8.00±0.30	2.80±0.30	2.20 typ.	3.20 typ.	3.70±0.50	6.40 typ.
ASU8040	8.00±0.30	8.00±0.30	3.80±0.30	2.20 typ.	3.20 typ.	3.70±0.50	6.40 typ.
ASU8045	8.00±0.30	8.00±0.30	4.50±0.30	2.20 typ.	3.20 typ.	3.70±0.50	6.40 typ.
ASU8058	8.00±0.30	8.00±0.30	5.80±0.30	2.20 typ.	3.20 typ.	3.70±0.50	6.40 typ.
ASU1028	10.00±0.30	10.00±0.30	2.80±0.30	2.50 typ.	3.20 typ.	5.00±0.50	7.40 typ.
ASU1030	10.00±0.30	10.00±0.30	2.80±0.30	2.75 typ.	4.00 typ.	4.50±0.50	8.20 typ.
ASU1038	10.00±0.30	10.00±0.30	3.80±0.30	2.50 typ.	3.20 typ.	5.00±0.50	7.40 typ.
ASU1040	10.00±0.30	10.00±0.30	3.80±0.30	2.75 typ.	4.00 typ.	4.50±0.50	8.20 typ.
ASU1048	10.00±0.30	10.00±0.30	4.80±0.30	2.50 typ.	3.20 typ.	5.00±0.50	7.40 typ.
ASU1050	10.00±0.30	10.00±0.30	4.80±0.30	2.75 typ.	4.00 typ.	4.50±0.50	8.20 typ.
ASU1065	10.00±0.30	10.00±0.30	6.60±0.30	2.75 typ.	4.00 typ.	4.50±0.50	8.20 typ.

Features

- Magnetic shielding allows high-density mounting
- Low profile
- Low RDC
- High current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

Application

- LED lighting
- HVAC
- Infotainment
- BCM

5028 / 6025 / 8028 / 8030 / 8040 / 8045 / 8058 / 1028 / 1030 / 1038 / 1040 / 1048 / 1050 / 1065

ASU5028 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq. (Hz)		RDC (mΩ)		SRF (MHz) typ.	Irms (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
ASU50281R2YLB-□□□	1.2±30%	10.0	100k	7.96M	16.8	22.0	200	3500	3400
ASU50282R2YLB-□□□	2.2±30%	10.0	100k	7.96M	21.0	27.0	130	3200	2500
ASU50283R3YLB-□□□	3.3±30%	10.0	100k	7.96M	24.0	32.0	90	2800	2100
ASU50284R7YLB-□□□	4.7±30%	9.0	100k	7.96M	32.0	45.0	50	2200	1850
ASU50286R8YLB-□□□	6.8±30%	10.0	100k	7.96M	42.0	56.0	55	2000	1550
ASU5028100YLB-□□□	10.0±30%	18.0	100k	2.52M	63.0	85.0	25	1800	1400
ASU5028150YLB-□□□	15.0±30%	18.0	100k	2.52M	108.0	140.0	23	1100	1000
ASU5028220YLB-□□□	22.0±30%	15.0	100k	2.52M	162.0	210.0	18	950	850
ASU5028330YLB-□□□	33.0±30%	15.0	100k	2.52M	203.0	260.0	16	800	680
ASU5028470YLB-□□□	47.0±30%	13.0	100k	2.52M	285.0	360.0	13	700	620
ASU5028680YLB-□□□	68.0±30%	13.0	100k	2.52M	450.0	550.0	10	560	460
ASU5028101YLB-□□□	100.0±30%	15.0	100k	796k	625.0	800.0	8	470	420

ASU6025 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq. (Hz)		RDC (mΩ)		SRF (MHz) typ.	Irms (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
ASU60251R2YFB-□□□	1.2±30%	8	100k	7.96M	14.5	19	120	4000	3200
ASU60252R2YFB-□□□	2.2±30%	8	100k	7.96M	18.5	24	65	3400	2350
ASU60253R3YFB-□□□	3.3±30%	8	100k	7.96M	21.0	27	50	3200	2000
ASU60254R7YFB-□□□	4.7±30%	8	100k	7.96M	27.0	35	42	2700	1550
ASU60256R8YFB-□□□	6.8±30%	8	100k	7.96M	32.0	42	36	2400	1300
ASU60258R2YFB-□□□	8.2±30%	8	100k	7.96M	40.0	52	30	2200	1250
ASU6025100YFB-□□□	10.0±30%	12	100k	2.52M	44.0	57	25	2000	1050
ASU6025150YFB-□□□	15.0±30%	12	100k	2.52M	66.0	86	22	1800	920
ASU6025220YFB-□□□	22.0±30%	12	100k	2.52M	100.0	130	18	1600	700
ASU6025330YFB-□□□	33.0±30%	12	100k	2.52M	140.0	180	12	1200	640
ASU6025470YFB-□□□	47.0±30%	12	100k	2.52M	190.0	250	10	1000	480
ASU6025680YFB-□□□	68.0±30%	10	100k	2.52M	280.0	365	8	800	400
ASU6025101YFB-□□□	100.0±30%	24	100k	796k	385.0	500	7	700	350
ASU6025151YFB-□□□	150.0±30%	30	100k	796k	590.0	770	5	540	280
ASU6025221YFB-□□□	220.0±30%	20	100k	796k	950.0	1250	4	420	240

ASU8028 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq.		RDC (mΩ)		SRF (MHz) typ.	Irms (A)	Isat (A)
			L (kHz)	Q (MHz)	typ.	max.			
ASU80282R5YFB-□□□	2.5±30%	15	100	7.96	13.6	18.0	65.0	4.50	4.20
ASU80283R3YFB-□□□	3.3±30%	12	100	7.96	17.5	23.0	60.0	3.60	3.50
ASU80284R7YFB-□□□	4.7±30%	15	100	7.96	20.0	26.0	50.0	3.70	3.20
ASU80286R8YFB-□□□	6.8±30%	13	100	7.96	34.0	45.0	40.0	2.80	2.50
ASU80288R2YFB-□□□	8.2±30%	11	100	7.96	45.0	54.0	38.0	2.60	2.30
ASU8028100YFB-□□□	10.0±30%	22	100	2.52	45.0	57.0	35.0	2.60	2.20
ASU8028150YFB-□□□	15.0±30%	20	100	2.52	66.0	85.0	25.0	2.00	1.70
ASU8028220YFB-□□□	22.0±30%	22	100	2.52	106.0	130.0	20.0	1.60	1.50
ASU8028330YFB-□□□	33.0±30%	20	100	2.52	147.0	185.0	15.0	1.30	1.10
ASU8028470YFB-□□□	47.0±30%	14	100	2.52	177.0	230.0	12.0	1.20	1.00
ASU8028680YFB-□□□	68.0±30%	23	100	2.52	317.0	390.0	9.0	0.85	0.80
ASU8028101YFB-□□□	100.0±30%	20	100	0.796	390.0	500.0	8.0	0.75	0.70

ASU8030 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq.		RDC (mΩ)		SRF (MHz) typ.	Irms (A) typ.	Isat (A) typ.
			L (kHz)	Q (MHz)	typ.	max.			
ASU80303R3YFB-□□□	3.3±30%	12	100	7.96	15.6	22.0	55.0	5.00	4.60
ASU80304R7YFB-□□□	4.7±30%	10	100	7.96	22.0	30.0	42.0	4.60	3.80
ASU80306R8YFB-□□□	6.8±30%	10	100	7.96	34.5	46.0	30.0	3.60	3.20
ASU8030100YFB-□□□	10.0±30%	18	100	2.52	47.3	60.0	25.0	3.00	2.60
ASU8030150YFB-□□□	15.0±30%	18	100	2.52	75.0	100.0	20.0	2.20	2.00
ASU8030220YFB-□□□	22.0±30%	18	100	2.52	105.0	130.0	16.0	2.00	1.75
ASU8030330YFB-□□□	33.0±30%	16	100	2.52	144.0	180.0	14.0	1.60	1.45
ASU8030470YFB-□□□	47.0±30%	16	100	2.52	205.0	260.0	12.0	1.45	1.25
ASU8030680YFB-□□□	68.0±30%	16	100	2.52	250.0	315.0	9.0	1.25	0.96
ASU8030101YFB-□□□	100.0±30%	24	100	0.796	415.0	520.0	7.0	0.85	0.75

ASU8040 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq.		RDC (mΩ)		SRF (MHz) typ.	Irms (A) typ.	Isat (A) typ.
			L (kHz)	Q (MHz)	typ.	max.			
ASU80403R3YFB-□□□	3.3±30%	12	100	7.96	13.8	18.0	40.0	6.00	5.00
ASU80404R2YFB-□□□	4.2±30%	12	100	7.96	16.5	22.0	32.0	5.30	4.60
ASU80406R2YFB-□□□	6.2±30%	10	100	7.96	25.0	32.0	28.0	4.20	4.00
ASU8040100YFB-□□□	10.0±30%	22	100	2.52	38.0	52.0	20.0	3.70	2.90
ASU8040150YFB-□□□	15.0±30%	20	100	2.52	55.0	70.0	18.0	2.80	2.50
ASU8040220YFB-□□□	22.0±30%	22	100	2.52	88.0	110.0	15.0	2.20	2.05
ASU8040330YFB-□□□	33.0±30%	22	100	2.52	115.0	150.0	12.0	1.90	1.75
ASU8040470YFB-□□□	47.0±30%	20	100	2.52	150.0	190.0	10.0	1.55	1.45
ASU8040680YFB-□□□	68.0±30%	18	100	2.52	205.0	260.0	8.0	1.35	1.10
ASU8040101YFB-□□□	100.0±30%	25	100	0.796	325.0	410.0	6.0	1.05	0.92
ASU8040151YFB-□□□	150.0±30%	18	100	0.796	445.0	560.0	5.0	0.90	0.77

ASU8045 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq.		RDC (mΩ)		SRF (MHz) typ.	Irms (A)	Isat (A)
			L (kHz)	Q (MHz)	typ.	max.			
ASU80453R5YFB-□□□	3.5±30%	12	100	7.96	18.8	25.0	45.0	5.00	5.00
ASU80454R7YFB-□□□	4.7±30%	10	100	7.96	22.0	27.5	30.0	4.60	4.40
ASU80456R2YFB-□□□	6.2±30%	10	100	7.96	28.5	36.0	23.0	4.20	3.80
ASU8045100YFB-□□□	10.0±30%	16	100	2.52	35.0	48.0	18.0	3.50	3.30
ASU8045220YFB-□□□	22.0±30%	18	100	2.52	94.0	122.0	12.0	2.25	2.15
ASU8045330YFB-□□□	33.0±30%	14	100	2.52	118.0	150.0	8.0	2.00	1.80
ASU8045470YFB-□□□	47.0±30%	12	100	2.52	215.0	270.0	6.0	1.45	1.40
ASU8045680YFB-□□□	68.0±30%	8	100	2.52	320.0	400.0	4.0	1.25	1.20
ASU8045101YFB-□□□	100.0±30%	20	100	0.796	400.0	500.0	3.0	1.00	0.92

ASU8058 Series

DWG. No.	Inductance (µH)	Q ref.	Test Freq.		RDC (mΩ)		SRF (MHz) typ.	Irms (A)	Isat (A)
			L (kHz)	Q (MHz)	typ.	max.			
ASU80583R9YFB-□□□	3.9±30%	8	100	7.96	12.0	16.0	45.0	6.50	4.50
ASU80585R2YFB-□□□	5.2±30%	8	100	7.96	14.0	17.5	35.0	5.80	3.90
ASU80586R8YFB-□□□	6.8±30%	8	100	7.96	16.0	20.0	30.0	5.50	4.00
ASU8058100YFB-□□□	10.0±30%	20	100	2.52	18.6	25.0	18.0	4.60	3.00
ASU8058220YFB-□□□	22.0±30%	20	100	2.52	42.0	52.0	14.0	3.40	1.80
ASU8058330YFB-□□□	33.0±30%	16	100	2.52	58.0	72.0	10.0	2.70	1.60
ASU8058470YFB-□□□	47.0±30%	12	100	2.52	80.0	100.0	7.0	2.30	1.50
ASU8058680YFB-□□□	68.0±30%	16	100	2.52	100.0	130.0	6.0	2.00	1.20
ASU8058101YFB-□□□	100.0±30%	22	100	0.796	124.0	160.0	5.0	1.70	0.90

• All specifications are subject to change without notice.

ASU1028 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
ASU10281R0YFB-□□□	1.00±30%	14	100	4.9	6.5	7.00	8.00
ASU10281R5YFB-□□□	1.50±30%	12	80	7.3	10.0	6.50	6.50
ASU10282R2YFB-□□□	2.20±30%	12	65	11.0	15.0	5.30	4.80
ASU10283R3YFB-□□□	3.30±30%	14	55	15.0	20.0	4.60	4.30
ASU10284R7YFB-□□□	4.70±30%	12	40	16.5	23.0	4.50	3.80
ASU10286R8YFB-□□□	6.80±30%	12	30	25.0	33.0	3.50	3.00
ASU10288R2YFB-□□□	8.20±30%	12	28	28.5	37.0	3.30	2.70
ASU1028100YFB-□□□	10.00±30%	20	25	40.0	53.0	2.80	2.40
ASU1028150YFB-□□□	15.00±30%	26	22	69.0	90.0	2.00	2.00
ASU1028220YFB-□□□	22.00±30%	26	16	104.0	135.0	1.60	1.40
ASU1028330YFB-□□□	33.00±30%	24	12	139.0	180.0	1.25	1.20
ASU1028470YFB-□□□	47.00±30%	20	11	167.0	230.0	1.30	1.10
ASU1028560YFB-□□□	56.00±30%	22	10	208.0	270.0	1.10	1.00
ASU1028680YFB-□□□	68.00±30%	20	9	232.0	300.0	1.00	0.90
ASU1028820YFB-□□□	82.00±30%	20	8	323.0	420.0	0.90	0.85
ASU1028101YFB-□□□	100.00±30%	20	7	365.0	470.0	0.85	0.80
ASU1028121YFB-□□□	120.00±30%	18	6	428.0	560.0	0.70	0.70
ASU1028151YFB-□□□	150.00±30%	18	5	518.0	680.0	0.65	0.65

ASU1030 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
ASU10303R5YFB-□□□	3.5±30%	16	45	20.5	27.0	5.00	5.20
ASU10304R7YFB-□□□	4.7±30%	14	36	25.0	32.5	4.20	4.40
ASU10306R2YFB-□□□	6.2±30%	12	30	32.0	42.0	3.80	3.90
ASU1030100YFB-□□□	10.0±30%	16	26	44.0	58.0	3.00	3.10
ASU1030150YFB-□□□	15.0±30%	16	22	73.0	95.0	2.60	2.55
ASU1030220YFB-□□□	22.0±30%	16	18	110.0	145.0	2.00	2.10
ASU1030330YFB-□□□	33.0±30%	12	14	150.0	195.0	1.70	1.74
ASU1030470YFB-□□□	47.0±30%	14	12	210.0	270.0	1.40	1.35
ASU1030680YFB-□□□	68.0±30%	14	10	285.0	370.0	1.20	1.22
ASU1030101YFB-□□□	100.0±30%	14	8.5	395.0	520.0	1.10	1.02
ASU1030151YFB-□□□	150.0±30%	12	5.5	640.0	840.0	0.85	0.84

ASU1038 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
ASU10381R5YFB-□□□	1.5±30%	14	65	5.2	7.5	7.20	7.00
ASU10382R2YFB-□□□	2.2±30%	12	55	7.7	10.5	6.80	6.50
ASU10383R5YFB-□□□	3.5±30%	14	35	11.5	15.0	5.50	5.50
ASU10385R0YFB-□□□	5.0±30%	12	30	14.5	22.0	4.60	4.80
ASU10386R2YFB-□□□	6.2±30%	12	25	16.5	24.0	4.00	4.20
ASU1038100YFB-□□□	10.0±30%	24	20	25.0	35.0	3.80	3.60
ASU1038150YFB-□□□	15.0±30%	24	16	37.0	50.0	2.80	2.70
ASU1038220YFB-□□□	22.0±30%	20	12	55.8	75.0	2.20	2.30
ASU1038330YFB-□□□	33.0±30%	22	10	86.0	112.0	1.80	1.80
ASU1038470YFB-□□□	47.0±30%	22	8	121.0	160.0	1.65	1.60
ASU1038680YFB-□□□	68.0±30%	24	7	166.0	216.0	1.30	1.30
ASU1038101YFB-□□□	100.0±30%	24	6	220.0	300.0	1.10	1.10
ASU1038151YFB-□□□	150.0±30%	20	5	358.0	476.0	0.90	0.80
ASU1038221YFB-□□□	220.0±30%	22	4	565.0	740.0	0.65	0.65
ASU1038331YFB-□□□	330.0±30%	20	3	773.0	1000.0	0.55	0.52

ASU1040 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
ASU10403R8YFB-□□□	3.8±30%	14	40.0	13.5	18.0	6.60	5.80
ASU10405R0YFB-□□□	5.0±30%	12	28.0	17.5	23.0	5.20	4.70
ASU10406R2YFB-□□□	6.2±30%	12	24.0	21.5	28.0	4.70	4.30
ASU1040100YFB-□□□	10.0±30%	16	22.0	32.0	42.0	4.40	3.80
ASU1040150YFB-□□□	15.0±30%	18	16.0	60.0	78.0	2.90	2.80
ASU1040220YFB-□□□	22.0±30%	16	12.0	75.0	98.0	2.55	2.48
ASU1040330YFB-□□□	33.0±30%	16	10.0	110.0	140.0	2.05	2.00
ASU1040470YFB-□□□	47.0±30%	16	8.0	170.0	220.0	1.62	1.56
ASU1040680YFB-□□□	68.0±30%	16	7.0	245.0	320.0	1.45	1.40
ASU1040101YFB-□□□	100.0±30%	14	6.0	320.0	415.0	1.18	1.14
ASU1040221YFB-□□□	220.0±30%	14	4.0	760.0	950.0	0.78	0.72
ASU1040331YFB-□□□	330.0±30%	14	2.5	1080.0	1350.0	0.62	0.60

ASU1048 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
ASU10481R5YFB-□□□	1.5±30%	14	70.0	4.3	5.8	7.00	7.20
ASU10482R2YFB-□□□	2.2±30%	14	55.0	5.3	7.2	6.50	6.30
ASU10483R0YFB-□□□	3.0±30%	14	40.0	7.2	10.0	6.20	6.00
ASU10484R7YFB-□□□	4.7±30%	12	30.0	9.5	12.5	5.50	4.75
ASU10486R8YFB-□□□	6.8±30%	10	20.0	13.6	18.0	4.80	4.10
ASU10488R2YFB-□□□	8.2±30%	8	18.0	15.0	20.0	4.60	3.80
ASU1048100YFB-□□□	10.0±30%	26	16.0	18.5	25.0	4.50	3.70
ASU1048150YFB-□□□	15.0±30%	30	14.0	29.0	40.0	3.20	2.70
ASU1048220YFB-□□□	22.0±30%	22	12.0	42.0	55.0	2.60	2.00
ASU1048330YFB-□□□	33.0±30%	24	10.0	63.0	84.0	2.10	1.70
ASU1048470YFB-□□□	47.0±30%	26	8.0	94.0	120.0	1.70	1.50
ASU1048560YFB-□□□	56.0±30%	26	7.0	110.0	145.0	1.60	1.40
ASU1048680YFB-□□□	68.0±30%	24	6.0	127.0	170.0	1.40	1.25
ASU1048820YFB-□□□	82.0±30%	24	5.5	149.0	200.0	1.30	1.10
ASU1048101YFB-□□□	100.0±30%	26	5.0	160.0	220.0	1.20	1.00
ASU1048151YFB-□□□	150.0±30%	24	4.5	235.0	305.0	1.00	0.80
ASU1048221YFB-□□□	220.0±30%	20	4.0	350.0	455.0	0.80	0.70
ASU1048331YFB-□□□	330.0±30%	18	3.0	490.0	640.0	0.65	0.52

ASU1050 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
ASU10504R7YFB-□□□	4.7±30%	13	34.0	14.5	19.0	5.20	5.10
ASU1050100YFB-□□□	10.0±30%	16	20.0	26.0	34.0	4.40	3.80
ASU1050220YFB-□□□	22.0±30%	16	10.0	58.0	76.0	2.90	2.70
ASU1050330YFB-□□□	33.0±30%	14	8.5	70.0	90.0	2.70	2.10
ASU1050470YFB-□□□	47.0±30%	14	7.0	100.0	130.0	2.10	1.80
ASU1050680YFB-□□□	68.0±30%	14	6.5	144.0	186.0	1.75	1.45
ASU1050101YFB-□□□	100.0±30%	16	5.0	198.0	260.0	1.50	1.25
ASU1050151YFB-□□□	150.0±30%	16	4.0	330.0	430.0	1.15	1.05
ASU1050221YFB-□□□	220.0±30%	14	3.5	470.0	610.0	0.95	0.88
ASU1050331YFB-□□□	330.0±30%	11	2.5	690.0	900.0	0.84	0.70
ASU1050471YFB-□□□	470.0±30%	11	1.9	1050.0	1350.0	0.65	0.55
ASU1050681YFB-□□□	680.0±30%	11	1.6	1350.0	1760.0	0.56	0.48
ASU1050102YFB-□□□	1000.0±30%	30	1.4	2120.0	2760.0	0.47	0.40

• All specifications are subject to change without notice.

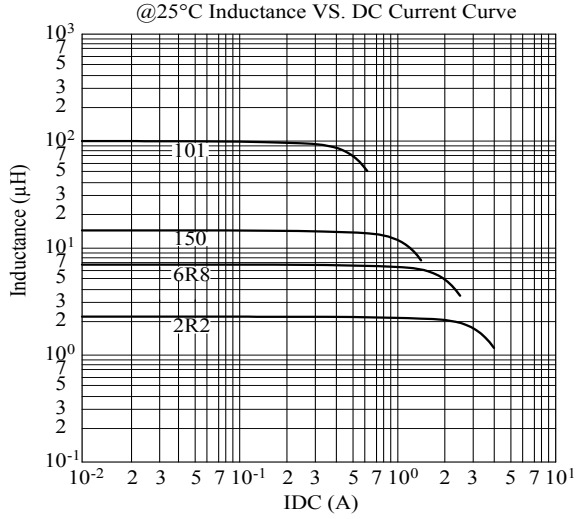
5028 / 6025 / 8028 / 8030 / 8040 / 8045 / 8058 / 1028 / 1030 / 1038 / 1040 / 1048 / 1050 / 1065

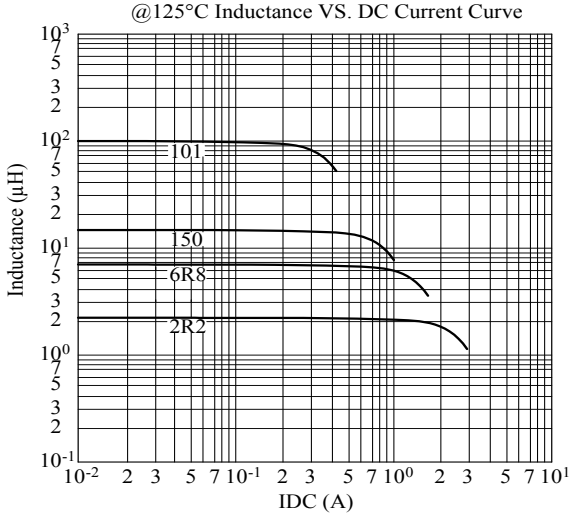
ASU1065 Series

DWG. No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
ASU10652R8YFB-□□□	2.8±30%	15	60	15.0	19.0	6.50	7.50
ASU10654R2YFB-□□□	4.2±30%	14	45	18.0	23.0	5.60	7.00
ASU10656R5YFB-□□□	6.5±30%	13	28	28.0	35.0	5.00	5.30
ASU1065100YFB-□□□	10.0±30%	14	20	33.0	41.0	4.90	4.00
ASU1065220YFB-□□□	22.0±30%	16	12	58.0	73.0	3.80	2.80
ASU1065330YFB-□□□	33.0±30%	10	7	93.0	120.0	2.70	2.40
ASU1065470YFB-□□□	47.0±30%	10	6	165.0	210.0	2.10	2.10
ASU1065680YFB-□□□	68.0±30%	8	5	195.0	250.0	1.85	1.75
ASU1065101YFB-□□□	100.0±30%	13	4	234.0	290.0	1.80	1.40

1. Electrical specifications at 25°C
2. Inductance Test Freq.:100kHz / 0.1V
3. Q Test Freq.: 2R8~6R5--7.96MHz , 100~680--2.52MHz , 101--0.796MHz
4. Isat base on ΔL / L0A=35% typ.
5. Irms base on Temp. rise 40°C typ.

ASU5028 Series





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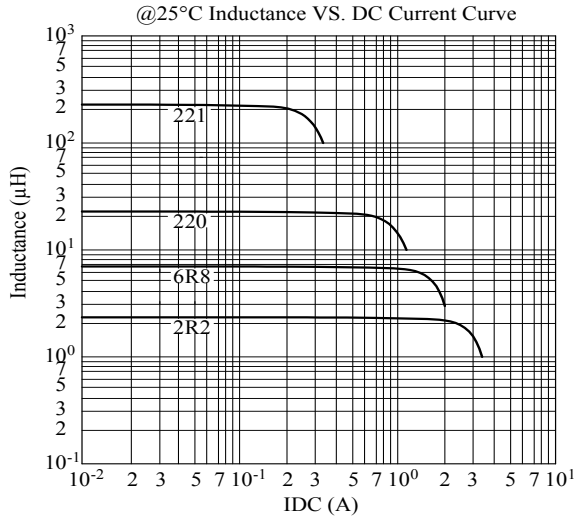
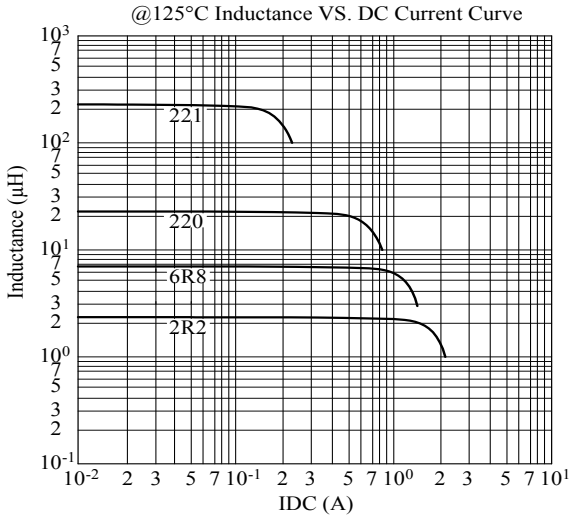
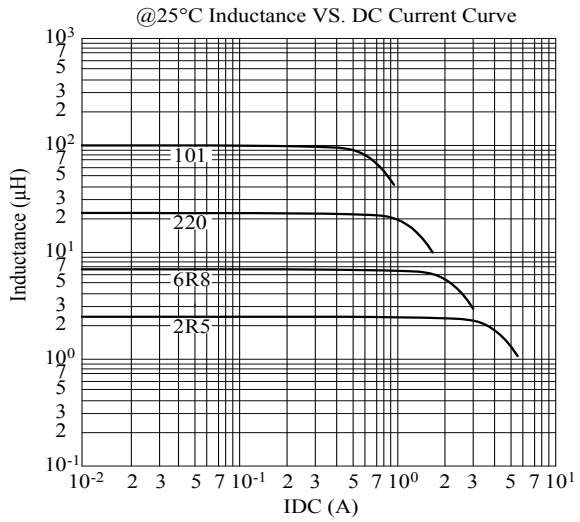
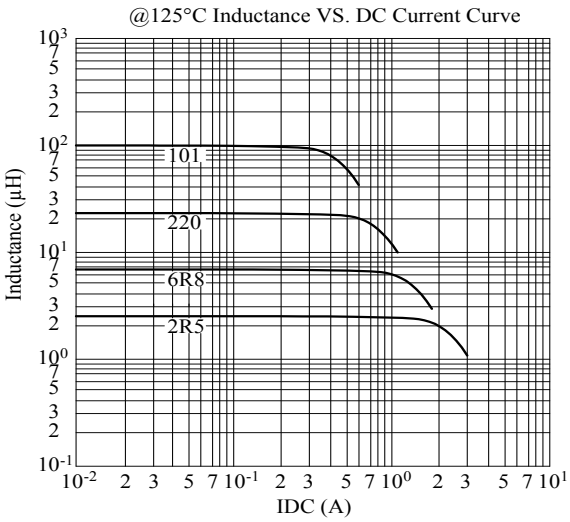




ASU8028 Series





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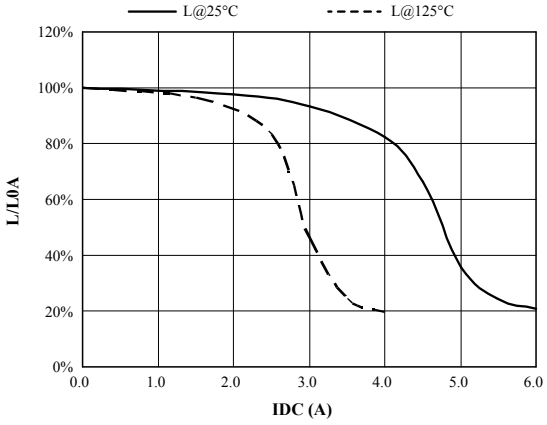

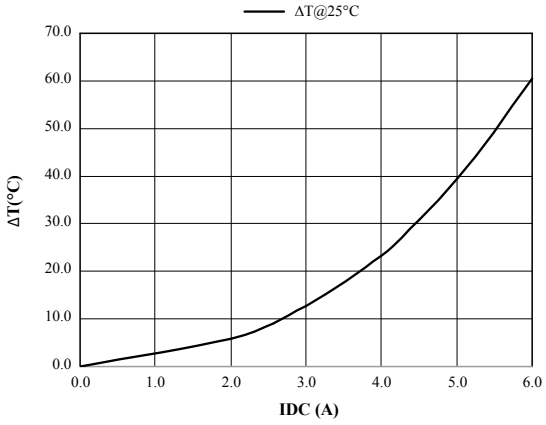

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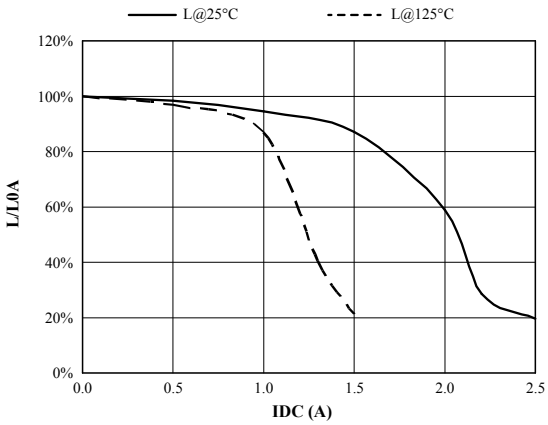

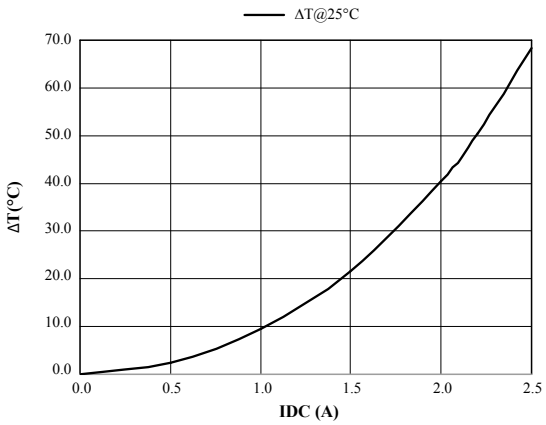

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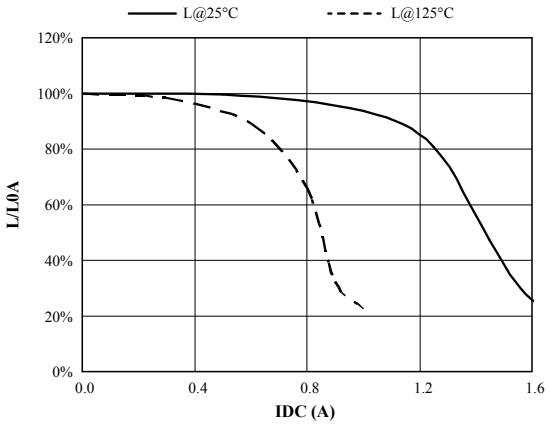

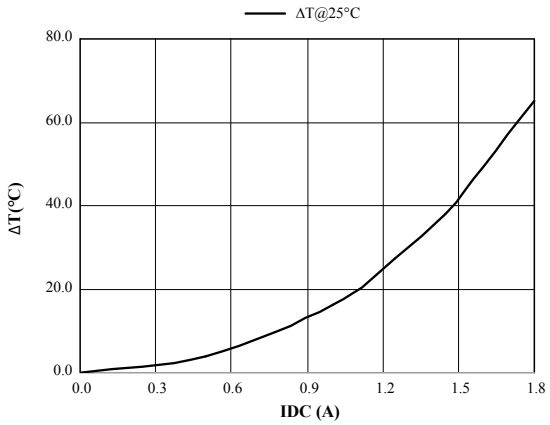

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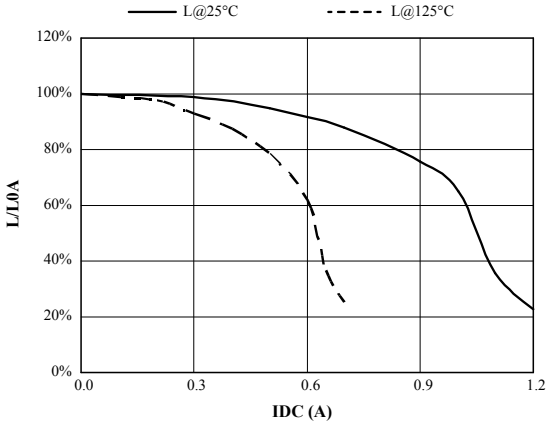

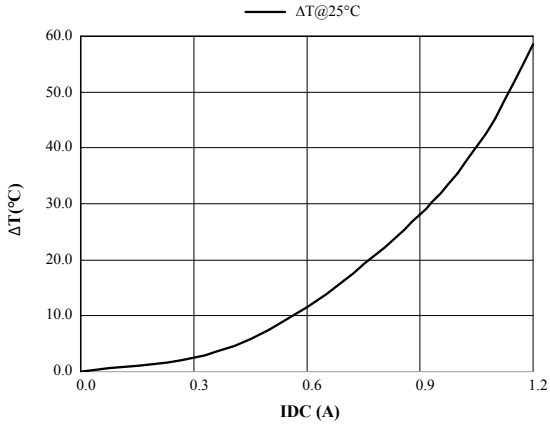

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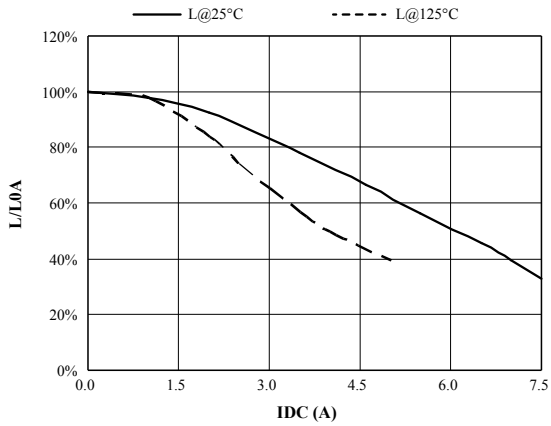

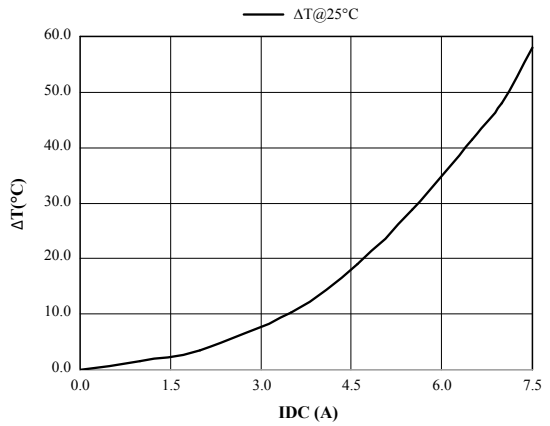

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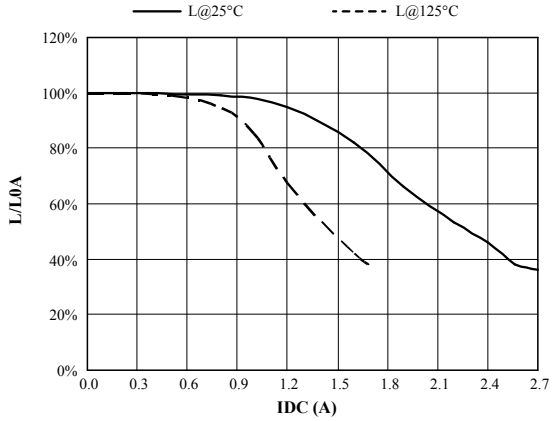

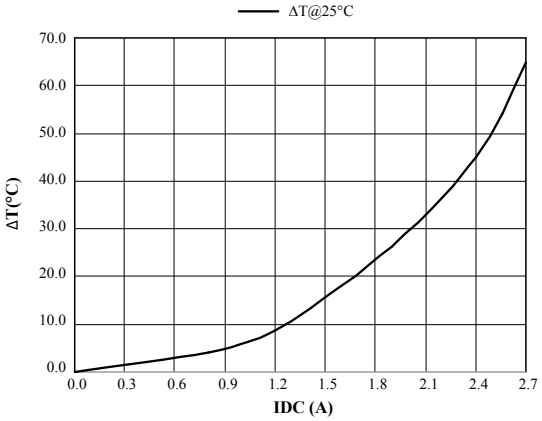

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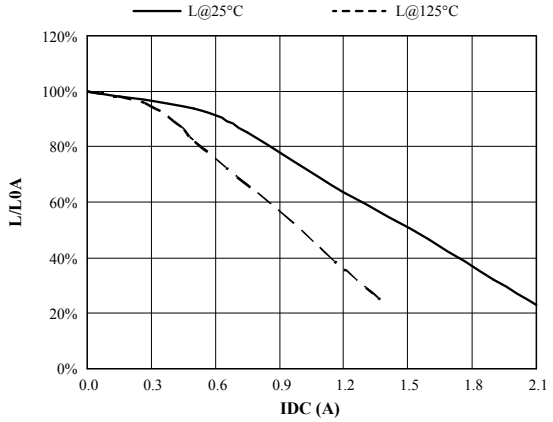

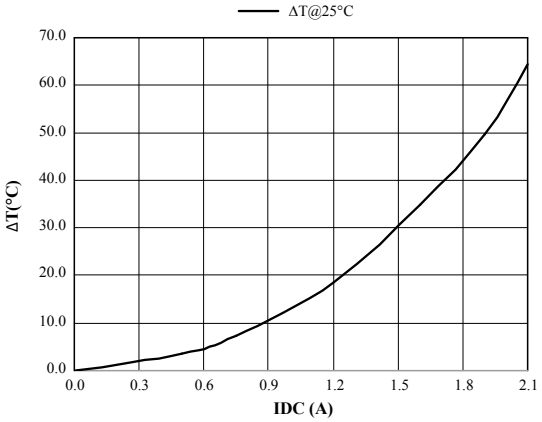

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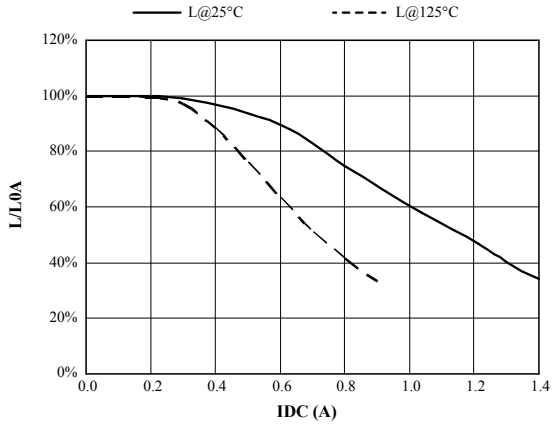
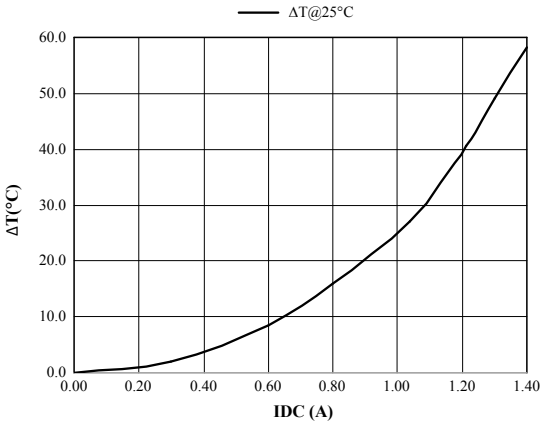
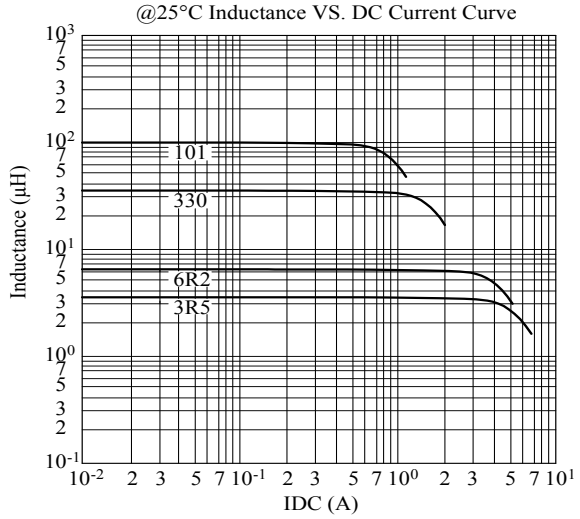
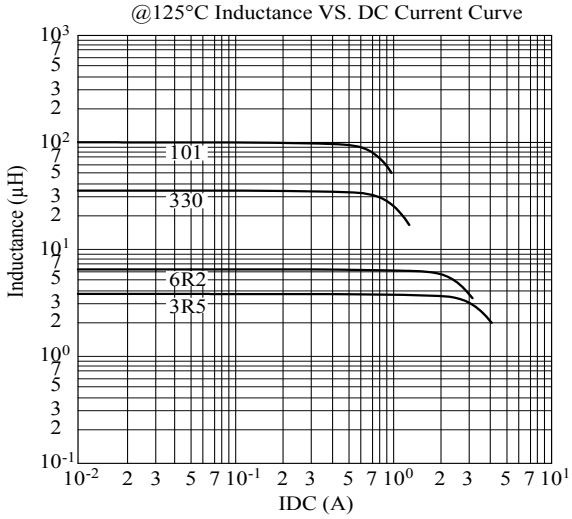


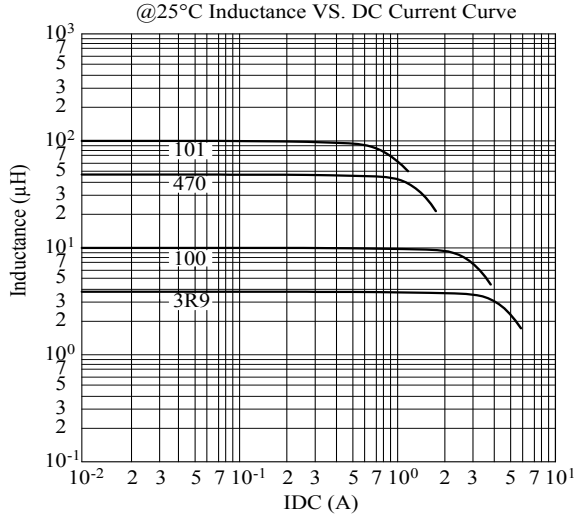


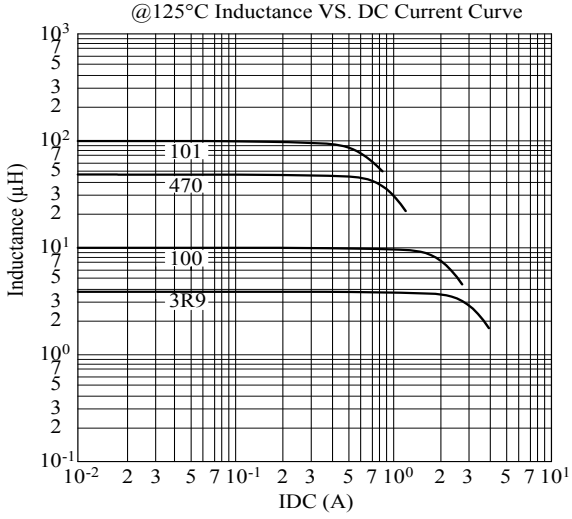
ASU8045 Series



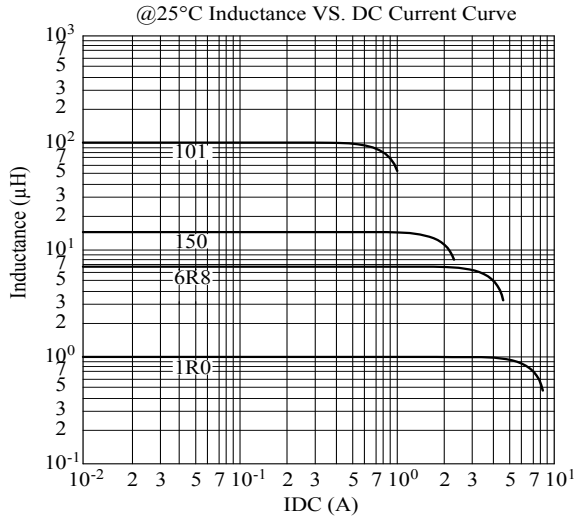


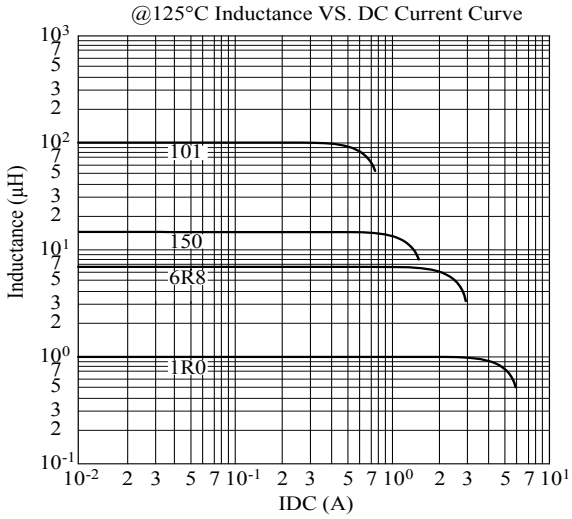
ASU8058 Series



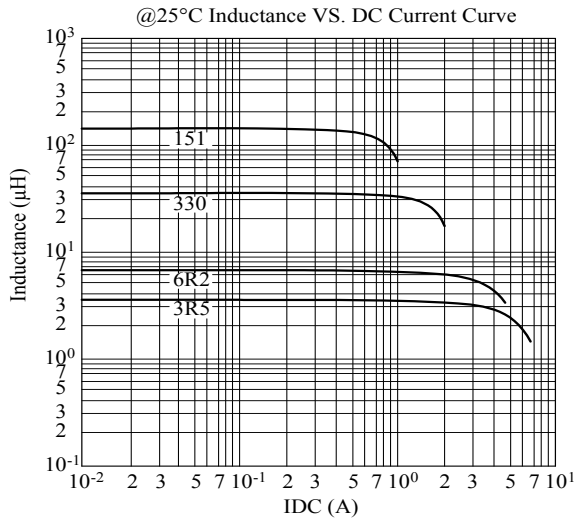


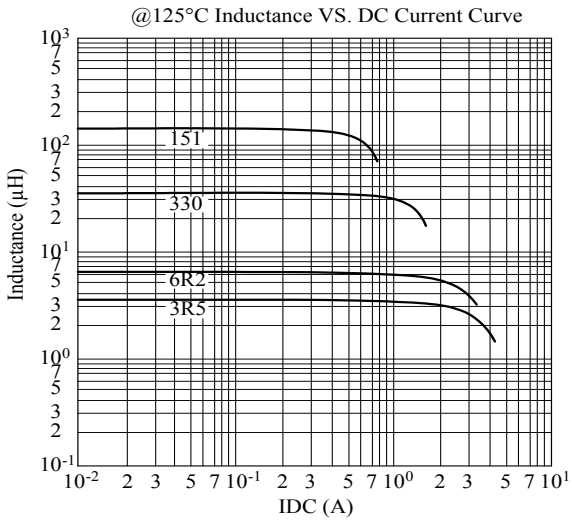
ASU1028 Series



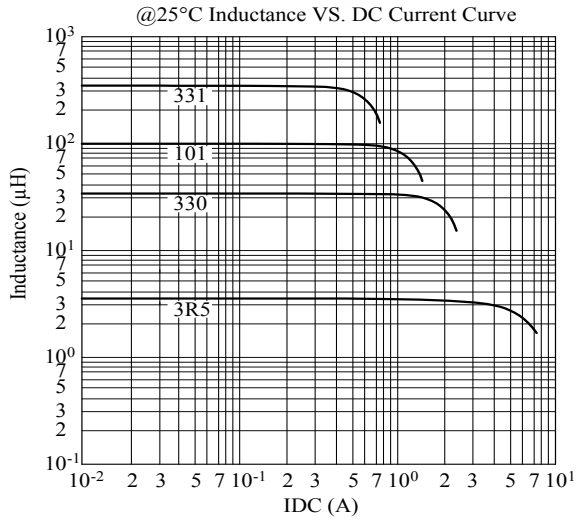


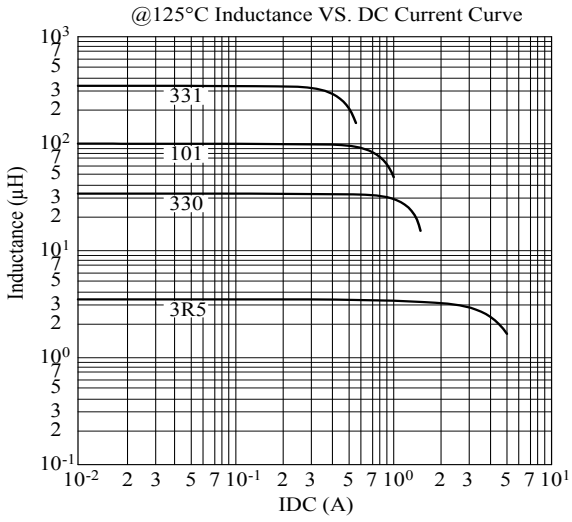
ASU1030 Series



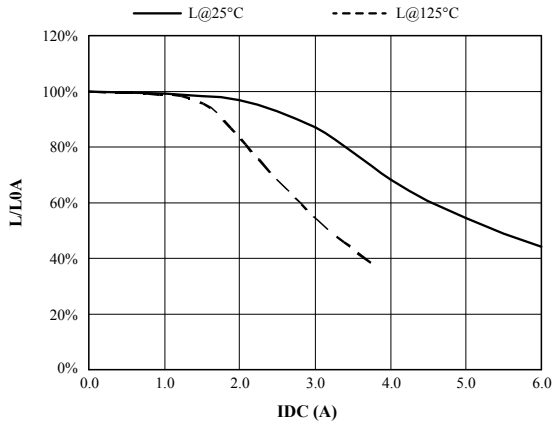


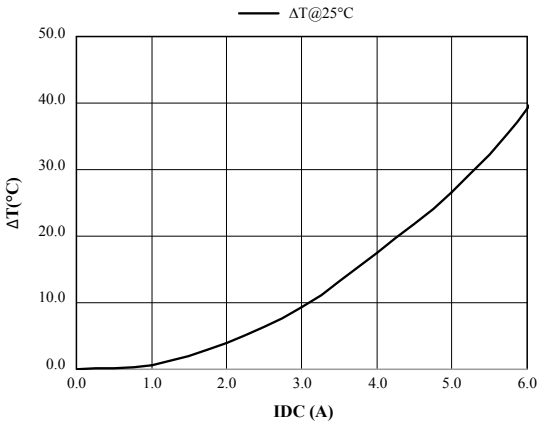
ASU1038 Series





ASU10406R2YFB





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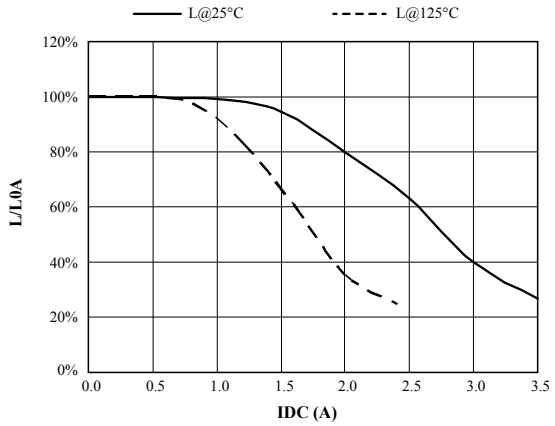

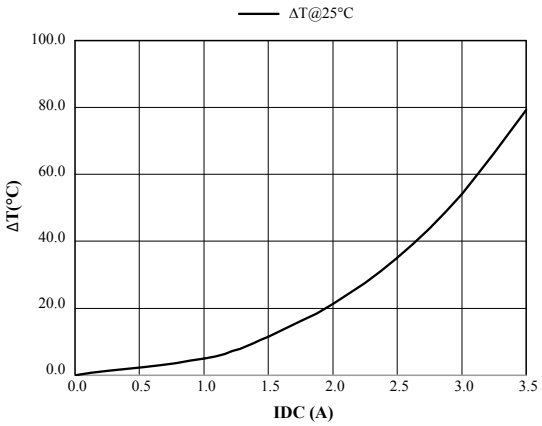

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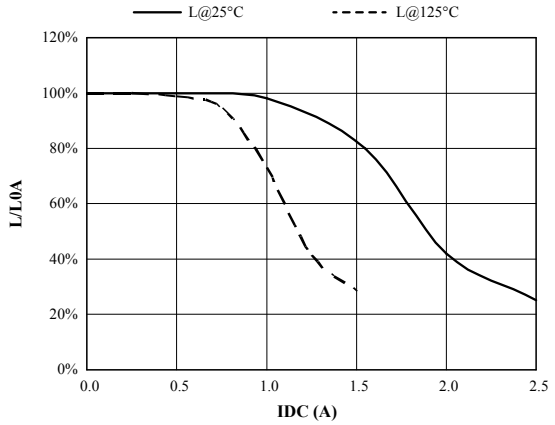

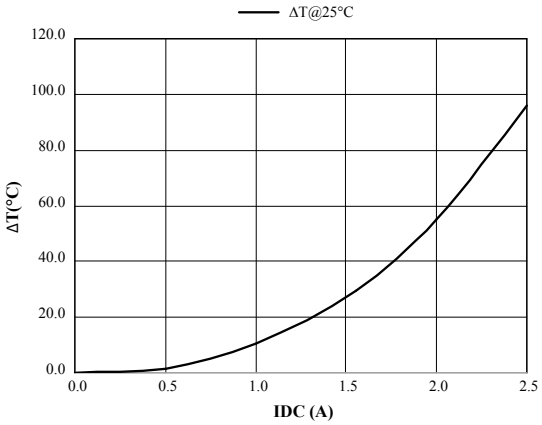

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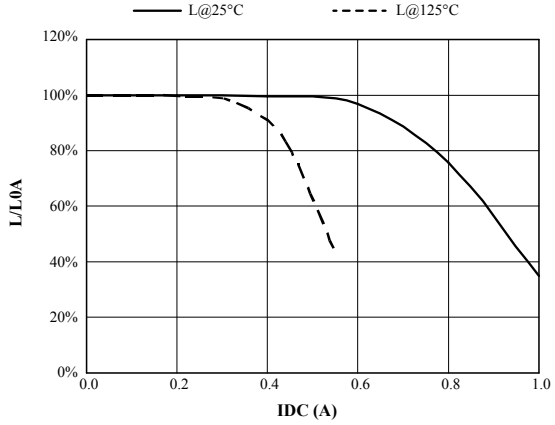
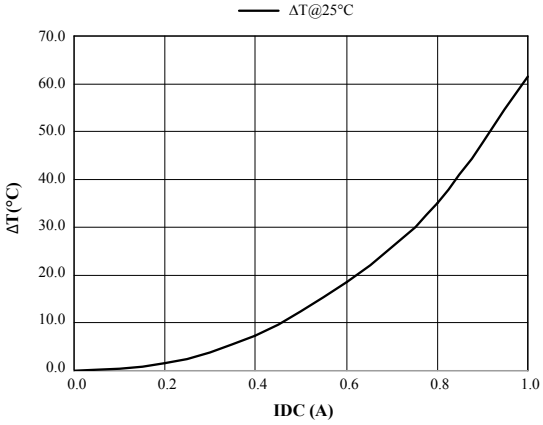
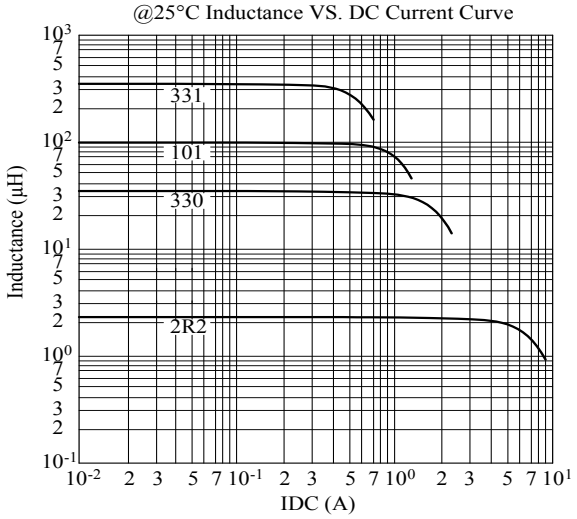
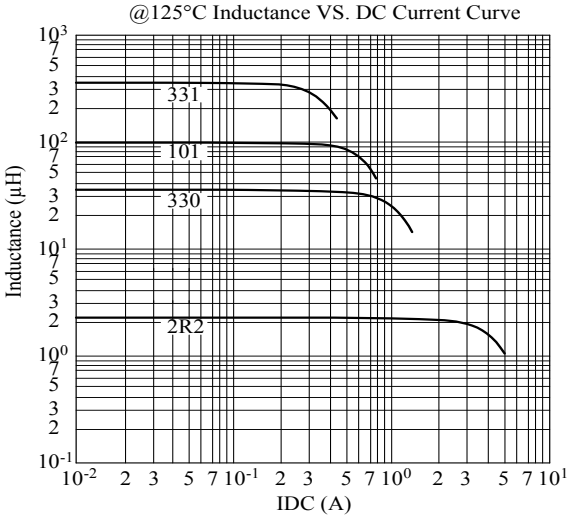


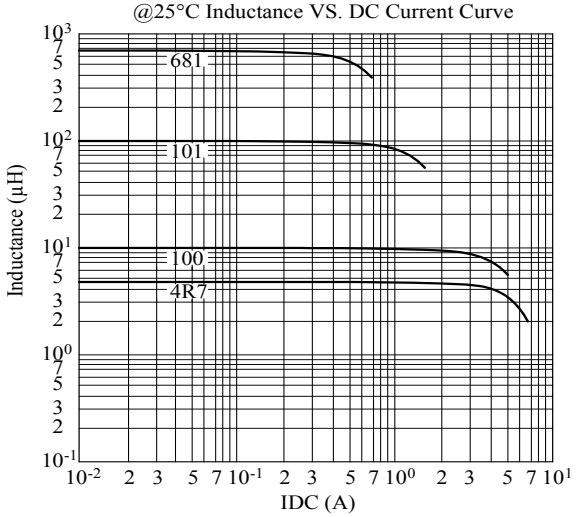


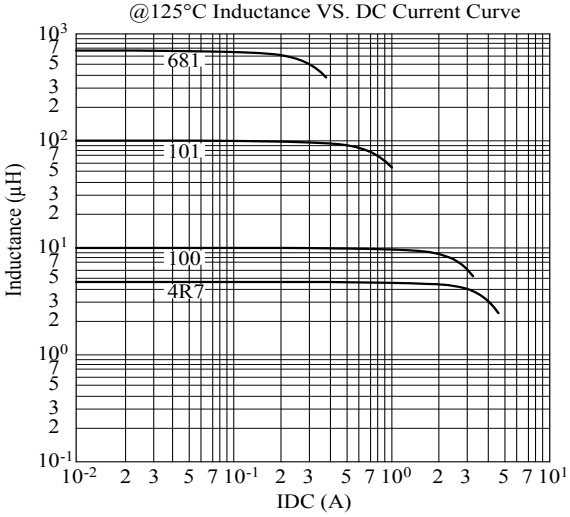
ASU1048 Series



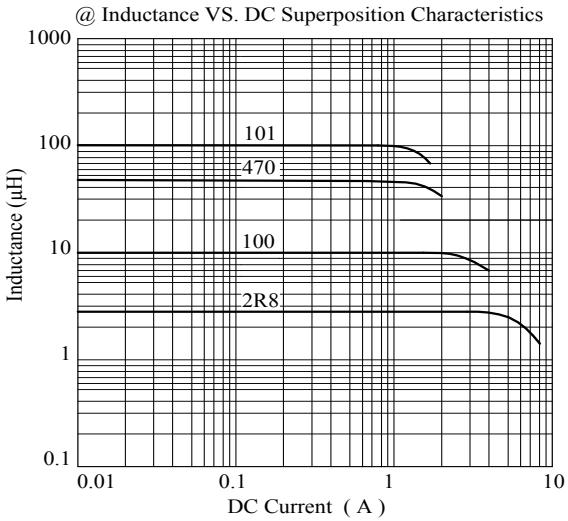


ASU1050 Series

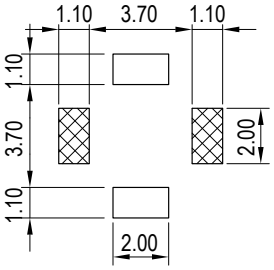




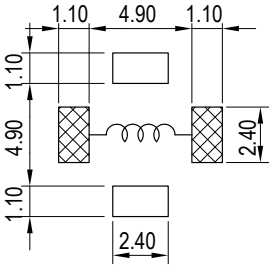
ASU1065 Series



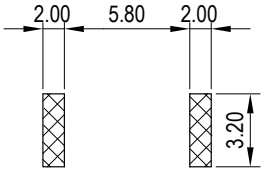
PCB Pattern



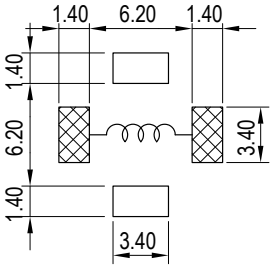
ASU5028



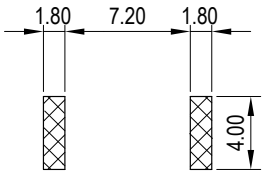
ASU6025



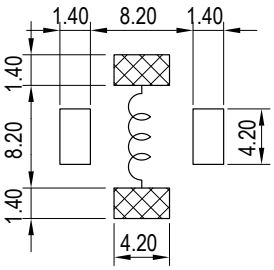
ASU8028



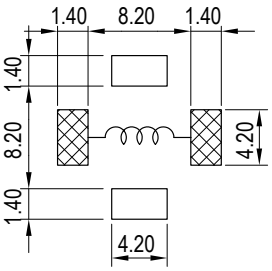
ASU8030 / ASU8040
ASU8045 / ASU8058



ASU1028 / ASU1038
ASU1048



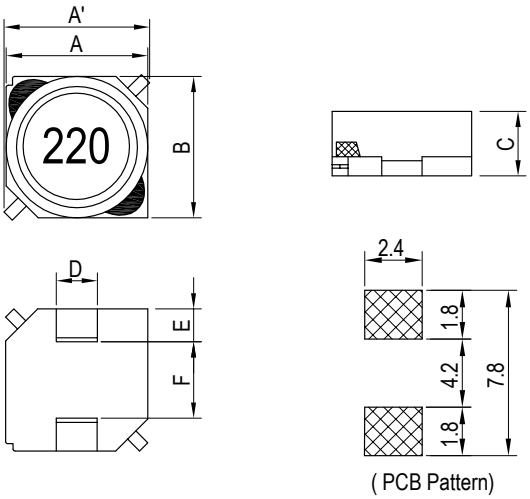
ASU1030 / ASU1040
ASU1050



ASU1065

ASS SERIES 7032

High Inductance



Unit: mm

Series	A	A'	B	C	D	E	F
ASS7032	7.00±0.30	7.45 max.	7.00±0.30	3.20±0.20	2.00 typ.	1.50 typ.	4.00 typ.

Features

- Magnetic shielding allows high-density mounting
- Glazing base termination offers excellent terminal strength
- Wide inductance from 1 to 1,000 µH
- Excellent current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

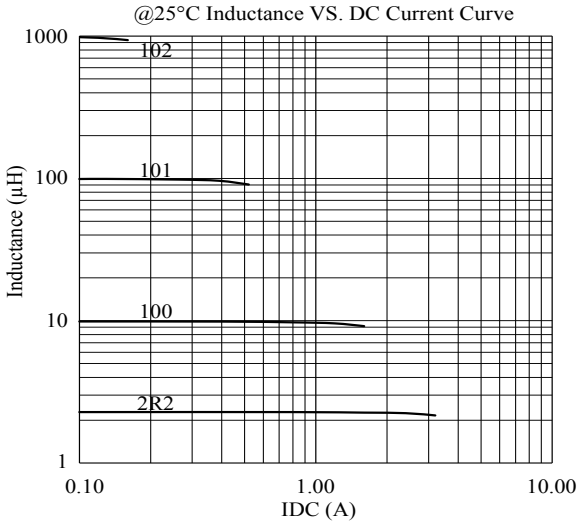
Application

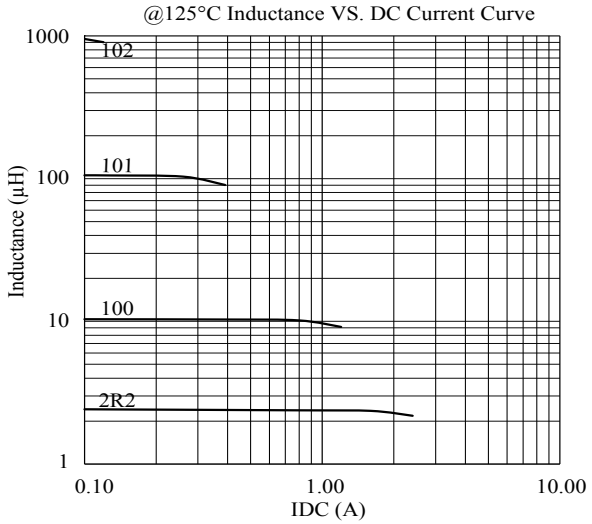
- LED lighting
- HVAC
- Infotainment
- BCM

ASS7032 Series							
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A) typ.	Isat (A) max.
ASS70322R2MSB-□□□	2.2±20%	12	7.96	70.0	0.022	2.60	2.65
ASS70323R3MSB-□□□	3.3±20%	16	7.96	55.0	0.027	2.20	2.40
ASS70324R7MSB-□□□	4.7±20%	16	7.96	43.0	0.042	2.00	2.00
ASS70326R8MSB-□□□	6.8±20%	17	7.96	37.0	0.054	1.80	1.60
ASS7032100MSB-□□□	10.0±20%	25	2.52	35.0	0.068	1.60	1.40
ASS7032150MSB-□□□	15.0±20%	22	2.52	32.0	0.095	1.20	1.10
ASS7032220MSB-□□□	22.0±20%	20	2.52	29.0	0.135	1.05	0.96
ASS7032330MSB-□□□	33.0±20%	23	2.52	20.0	0.200	0.86	0.76
ASS7032470MSB-□□□	47.0±20%	26	2.52	18.0	0.270	0.70	0.67
ASS7032680MSB-□□□	68.0±20%	22	2.52	16.0	0.380	0.67	0.60
ASS7032101MSB-□□□	100.0±20%	28	0.796	12.0	0.540	0.50	0.45
ASS7032151MSB-□□□	150.0±20%	35	0.796	10.0	0.800	0.38	0.37
ASS7032221MSB-□□□	220.0±20%	47	0.796	7.5	1.300	0.32	0.30
ASS7032331MSB-□□□	330.0±20%	46	0.796	6.1	1.900	0.24	0.22
ASS7032471MSB-□□□	470.0±20%	34	0.796	5.1	2.400	0.20	0.20
ASS7032681MSB-□□□	680.0±20%	58	0.796	3.8	3.750	0.15	0.16
ASS7032102MSB-□□□	1000.0±20%	70	0.252	3.1	5.400	0.14	0.15

1. Electrical specifications at 25°C
2. Inductance test condition 1kHz/0.5V
3. Isat base on ΔL/L0A=10% typ.
4. Irms base on Temp. rise 30°C max.

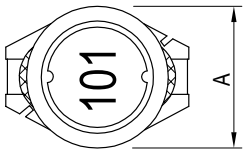
ASS7032 Series

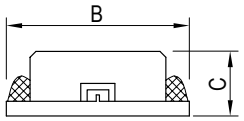


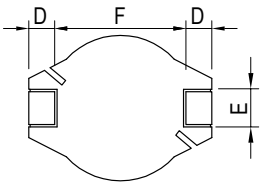


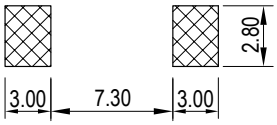
ASS SERIES 1005

High Inductance









(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F
ASS1005	10.00±0.30	12.70±0.30	4.90±0.30	2.40±0.20	2.20 ref.	7.60±0.30

Features

- Magnetic shielding allows high-density mounting
- Glazing base termination offers excellent terminal strength
- Wide inductance from 1 to 1,000 µH
- Excellent current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

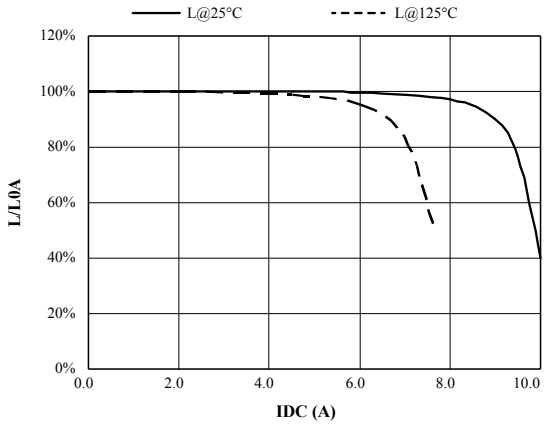
Application

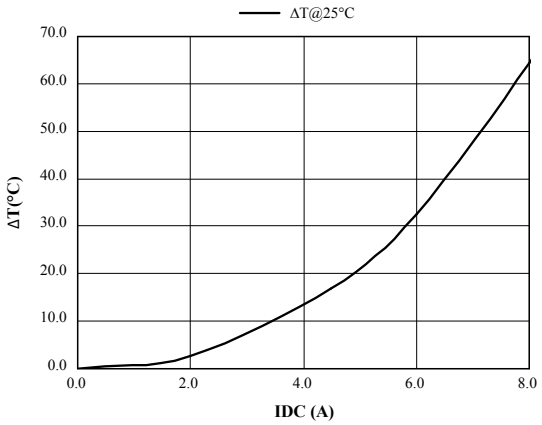
- LED lighting
- HVAC
- Infotainment
- BCM

ASS1005 Series								
DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	Irms (mA) max.	Isat (mA) max.
			L	Q				
ASS10051R0MLB-□□□	1.0±20%	25	1k/1V	7.960M	120.0	0.017	7.50	4.50
ASS10051R5MLB-□□□	1.5±20%	25	1k/1V	7.960M	100.0	0.020	6.10	3.60
ASS10052R2MLB-□□□	2.2±20%	25	1k/1V	7.960M	90.0	0.027	5.20	3.10
ASS10053R0MLB-□□□	3.0±20%	25	1k/1V	7.960M	80.0	0.030	4.50	2.90
ASS10054R7MLB-□□□	4.7±20%	25	1k/1V	7.960M	50.0	0.040	3.50	2.50
ASS10057R0MLB-□□□	7.0±20%	22	1k/1V	7.960M	32.0	0.055	2.90	2.20
ASS1005100MLB-□□□	10.0±20%	48	1k/1V	2.520M	30.0	0.065	2.50	2.00
ASS1005120MLB-□□□	12.0±20%	45	1k/1V	2.520M	25.0	0.080	2.20	1.80
ASS1005150MLB-□□□	15.0±20%	40	1k/1V	2.520M	20.0	0.085	2.00	1.70
ASS1005180YLB-□□□	18.0±15%	35	1k/1V	2.520M	19.0	0.090	1.80	1.60
ASS1005220YLB-□□□	22.0±15%	42	1k/1V	2.520M	18.0	0.100	1.60	1.40
ASS1005270YLB-□□□	27.0±15%	40	1k/1V	2.520M	17.0	0.120	1.50	1.30
ASS1005330YLB-□□□	33.0±15%	40	1k/1V	2.520M	15.0	0.160	1.30	1.20
ASS1005390YLB-□□□	39.0±15%	40	1k/1V	2.520M	13.0	0.180	1.20	1.05
ASS1005470YLB-□□□	47.0±15%	35	1k/1V	2.520M	12.0	0.190	1.10	1.00
ASS1005560YLB-□□□	56.0±15%	35	1k/1V	2.520M	11.0	0.210	1.00	0.90
ASS1005680YLB-□□□	68.0±15%	35	1k/1V	2.520M	9.0	0.340	0.92	0.82
ASS1005820YLB-□□□	82.0±15%	35	1k/1V	2.520M	8.0	0.380	0.85	0.75
ASS1005101KLB-□□□	100.0±10%	35	1k/1V	0.796M	7.5	0.420	0.78	0.68
ASS1005121KLB-□□□	120.0±10%	30	1k/1V	0.796M	7.2	0.460	0.70	0.60
ASS1005151KLB-□□□	150.0±10%	28	1k/1V	0.796M	6.2	0.520	0.63	0.55
ASS1005181KLB-□□□	180.0±10%	28	1k/1V	0.796M	5.8	0.700	0.58	0.50
ASS1005221KLB-□□□	220.0±10%	30	1k/1V	0.796M	5.2	0.800	0.51	0.45
ASS1005271KLB-□□□	270.0±10%	30	1k/1V	0.796M	4.8	1.100	0.46	0.40
ASS1005331KLB-□□□	330.0±10%	30	1k/1V	0.796M	4.5	1.200	0.42	0.35
ASS1005391KLB-□□□	390.0±10%	25	1k/1V	0.796M	4.2	1.400	0.38	0.33
ASS1005471KLB-□□□	470.0±10%	40	1k/1V	0.796M	3.0	1.600	0.36	0.30
ASS1005561KLB-□□□	560.0±10%	40	1k/1V	0.796M	2.7	1.800	0.32	0.28
ASS1005681KLB-□□□	680.0±10%	37	1k/1V	0.796M	2.6	2.300	0.29	0.26
ASS1005821KLB-□□□	820.0±10%	37	1k/1V	0.796M	2.5	2.600	0.26	0.24
ASS1005102KLB-□□□	1000.0±10%	65	1k/1V	0.252M	2.0	3.200	0.24	0.22
ASS1005122KLB-□□□	1200.0±10%	58	1k/1V	0.252M	2.0	3.600	0.22	0.20
ASS1005152KLB-□□□	1500.0±10%	53	1k/1V	0.252M	1.6	5.200	0.20	0.17
ASS1005182KLB-□□□	1800.0±10%	65	1k/1V	0.252M	1.4	5.700	0.18	0.16
ASS1005222KLB-□□□	2200.0±10%	55	1k/1V	0.252M	1.4	6.500	0.16	0.14
ASS1005272KLB-□□□	2700.0±10%	55	1k/1V	0.252M	1.2	8.600	0.14	0.12
ASS1005332KLB-□□□	3300.0±10%	50	1k/1V	0.252M	1.2	10.000	0.13	0.10

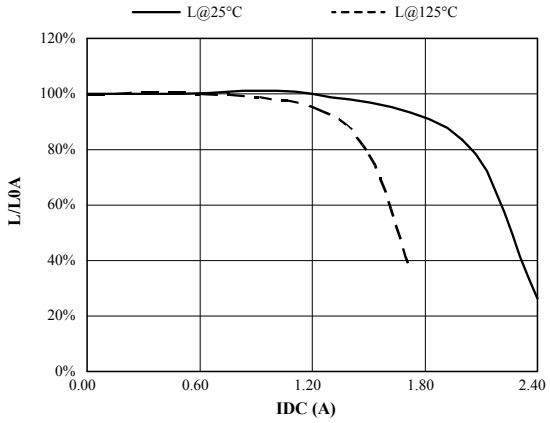
1. Electrical specifications at 25°C
2. Irms base on Temp. rise 40°C max.
3. Isat base on ΔL/L0A=10% max.

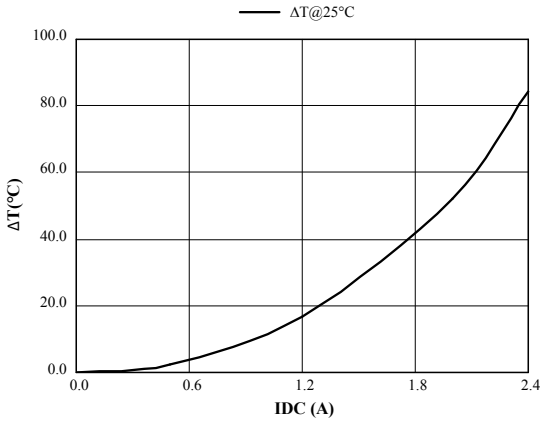
ASS10051R0MLB



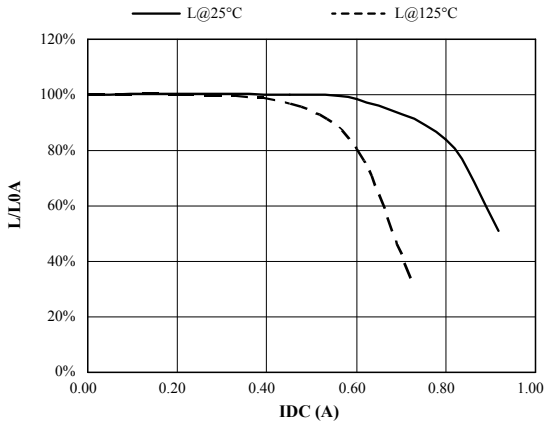


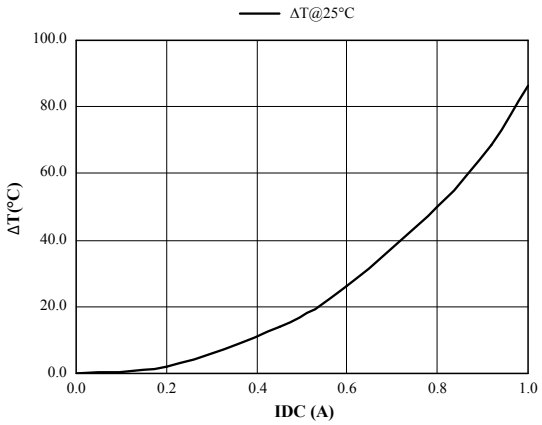
ASS1005330KLB



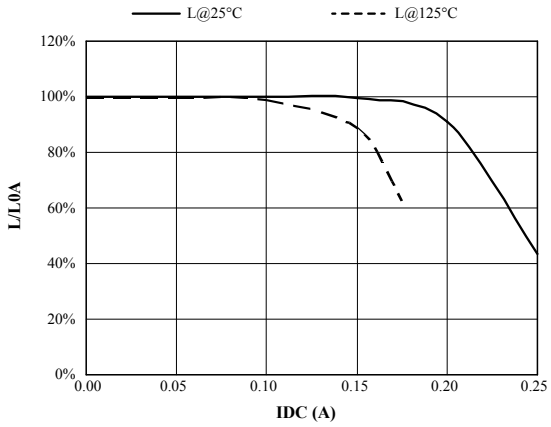


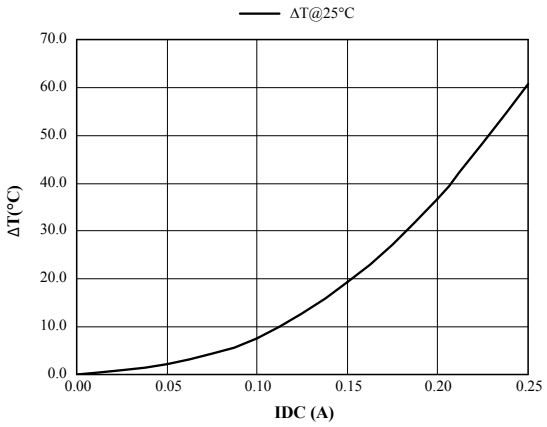
ASS1005221KLB





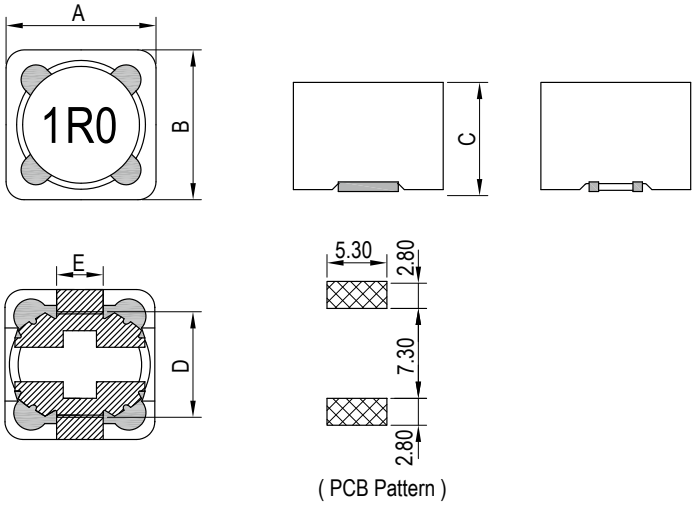
ASS1005332KLB





ASS SERIES 1210

High Inductance



Unit: mm

Series	A	B	C	D	F
ASS1210	12.0±0.50	12.0±0.50	10.0 max.	7.90 ref.	4.90 ref.

Features

- Magnetic shielding allows high-density mounting
- Glazing base termination offers excellent terminal strength
- Wide inductance from 1 to 1,000 µH
- Excellent current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

Application

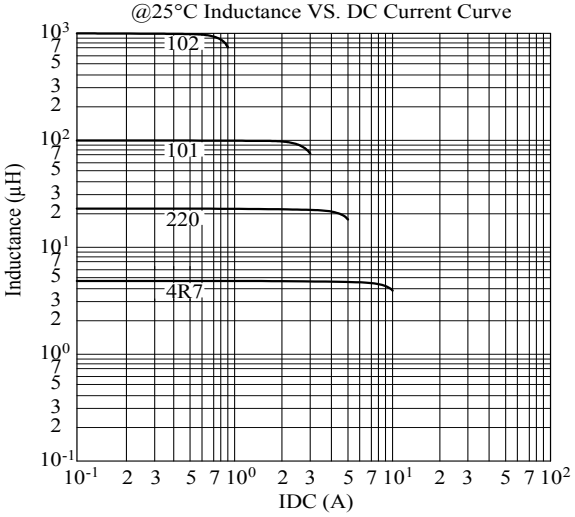
- LED lighting
- HVAC
- Infotainment
- BCM

ASS1210 Series							
DWG. No.	Inductance (µH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A) typ.	Isat (A) max.
ASS12101R0YFB-□□□	1.0±30%	10	7.960	85.00	6.0	11.00	16.50
ASS12101R8YFB-□□□	1.8±30%	10	7.960	56.00	7.5	10.20	13.20
ASS12102R2YFB-□□□	2.2±30%	10	7.960	54.00	9.0	9.50	12.20
ASS12103R3YFB-□□□	3.3±30%	15	7.960	44.00	10.0	9.00	10.50
ASS12104R7YFB-□□□	4.7±30%	8	7.960	35.00	12.0	8.50	9.60
ASS12105R6YFB-□□□	5.6±30%	12	7.960	28.00	13.5	8.00	8.50
ASS12106R8YFB-□□□	6.8±30%	12	7.960	20.00	15.0	7.85	8.30
ASS12108R2YFB-□□□	8.2±30%	11	7.960	16.00	17.0	7.25	7.55
ASS1210100MFB-□□□	10.0±20%	16	2.520	12.00	18.0	6.50	6.50
ASS1210120MFB-□□□	12.0±20%	14	2.520	18.00	22.0	6.30	6.10
ASS1210150MFB-□□□	15.0±20%	16	2.520	10.50	32.0	5.80	5.30
ASS1210180MFB-□□□	18.0±20%	13	2.520	8.00	35.0	5.50	5.10
ASS1210220MFB-□□□	22.0±20%	16	2.520	8.00	38.0	5.20	4.50
ASS1210270MFB-□□□	27.0±20%	16	2.520	6.50	40.0	5.00	4.20
ASS1210330MFB-□□□	33.0±20%	16	2.520	6.50	52.0	4.40	3.70
ASS1210390MFB-□□□	39.0±20%	16	2.520	4.50	66.0	4.20	3.50
ASS1210470MFB-□□□	47.0±20%	16	2.520	4.50	72.0	3.80	3.10
ASS1210560MFB-□□□	56.0±20%	8	2.520	4.00	90.0	3.40	2.90
ASS1210680MFB-□□□	68.0±20%	12	2.520	3.80	102.0	3.00	2.70
ASS1210820MFB-□□□	82.0±20%	15	2.520	3.50	112.0	2.80	2.50
ASS1210101MFB-□□□	100.0±20%	16	0.796	3.00	135.0	2.50	2.20
ASS1210121MFB-□□□	120.0±20%	13	0.796	2.60	170.0	2.30	1.90
ASS1210151MFB-□□□	150.0±20%	12	0.796	2.20	190.0	2.20	1.80
ASS1210181MFB-□□□	180.0±20%	14	0.796	1.80	250.0	1.90	1.60
ASS1210221MFB-□□□	220.0±20%	15	0.796	1.80	315.0	1.70	1.50
ASS1210271MFB-□□□	270.0±20%	16	0.796	1.80	410.0	1.50	1.30
ASS1210331MFB-□□□	330.0±20%	14	0.796	1.80	450.0	1.40	1.20
ASS1210391MFB-□□□	390.0±20%	16	0.796	1.30	600.0	1.30	1.10
ASS1210471MFB-□□□	470.0±20%	12	0.796	0.85	820.0	1.20	1.00
ASS1210561MFB-□□□	560.0±20%	12	0.796	0.85	900.0	1.10	0.95
ASS1210681MFB-□□□	680.0±20%	11	0.796	0.85	1200.0	1.00	0.85
ASS1210821MFB-□□□	820.0±20%	6	0.796	0.85	1320.0	0.85	0.75
ASS1210102MFB-□□□	1000.0±20%	22	0.796	0.85	1650.0	0.75	0.70

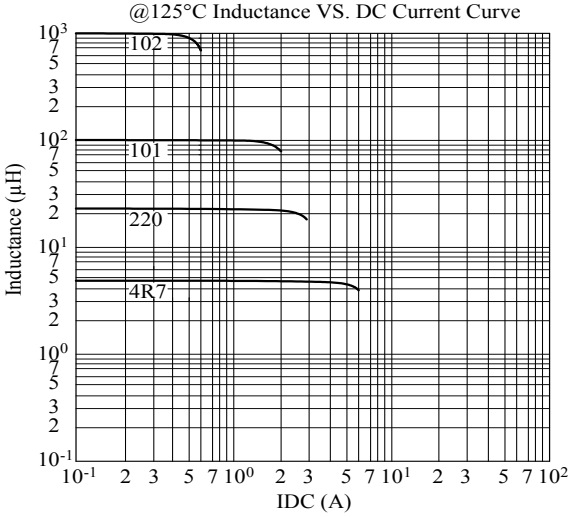
1. Electrical specifications at 25°C
2. Inductance Test Freq.: 1kHz/0.25V
3. Irms base on Temp. rise 40°C max.
4. Isat base on ΔL/L0A=20% typ.

ASS1210 Series

@25°C Inductance VS. DC Current Curve



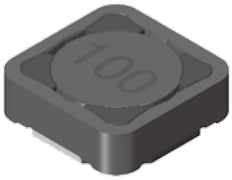
@125°C Inductance VS. DC Current Curve

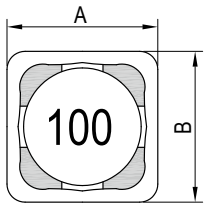


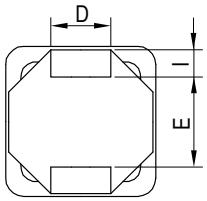
ASS SERIES

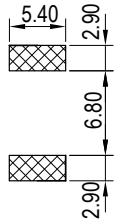
1240 / 1260 / MSS1280

High Inductance









(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	I
ASS1240	12.5±0.30	12.5±0.30	4.00±0.50	5.00±0.30	7.00 typ.	2.50±0.15
ASS1260	12.5±0.30	12.5±0.30	6.00±0.50	5.00±0.30	7.00 typ.	2.50±0.15
MSS1280	12.5±0.30	12.5±0.30	7.50±0.50	5.00±0.30	7.00 typ.	2.50±0.15

Features

- Magnetic shielding allows high-density mounting
- Glazing base termination offers excellent terminal strength
- Wide inductance from 1 to 1,000 µH
- Excellent current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

Application

- LED lighting
- HVAC
- Infotainment
- BCM

ASS1240 Series							
DWG. No.	Inductance (µH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
ASS1240100MLB-□□□	10.0±20%	17	2.520	27.0	32.0	4.00	4.00
ASS1240120MLB-□□□	12.0±20%	16	2.520	25.0	38.0	3.80	3.60
ASS1240150MLB-□□□	15.0±20%	16	2.520	22.0	47.0	3.50	3.20
ASS1240180MLB-□□□	18.0±20%	14	2.520	20.0	55.0	3.20	3.00
ASS1240220MLB-□□□	22.0±20%	18	2.520	16.0	67.5	3.00	2.60
ASS1240270MLB-□□□	27.0±20%	16	2.520	15.5	85.0	2.55	2.35
ASS1240330MLB-□□□	33.0±20%	19	2.520	15.0	97.0	2.30	2.10
ASS1240390MLB-□□□	39.0±20%	14	2.520	14.0	120.0	2.15	2.00
ASS1240470MLB-□□□	47.0±20%	19	2.520	13.0	135.0	2.00	1.80
ASS1240560MLB-□□□	56.0±20%	16	2.520	12.0	170.0	1.80	1.65
ASS1240680MLB-□□□	68.0±20%	19	2.520	11.0	200.0	1.50	1.50
ASS1240820MLB-□□□	82.0±20%	16	2.520	10.0	250.0	1.35	1.35
ASS1240101MLB-□□□	100.0±20%	14	0.796	8.0	300.0	1.25	1.20
ASS1240121KLB-□□□	120.0±10%	12	0.796	7.8	370.0	1.20	1.15
ASS1240151KLB-□□□	150.0±10%	12	0.796	7.5	440.0	1.10	1.05
ASS1240181KLB-□□□	180.0±10%	12	0.796	7.0	550.0	0.98	0.95
ASS1240221KLB-□□□	220.0±10%	12	0.796	6.6	600.0	0.92	0.90
ASS1240271KLB-□□□	270.0±10%	10	0.796	6.0	780.0	0.80	0.80
ASS1240331KLB-□□□	330.0±10%	12	0.796	5.5	950.0	0.75	0.75
ASS1240391KLB-□□□	390.0±10%	12	0.796	5.0	1150.0	0.70	0.65
ASS1240471KLB-□□□	470.0±10%	12	0.796	4.5	1350.0	0.62	0.60
ASS1240561KLB-□□□	560.0±10%	12	0.796	4.0	1500.0	0.55	0.52
ASS1240681KLB-□□□	680.0±10%	14	0.796	3.8	2000.0	0.50	0.48
ASS1240821KLB-□□□	820.0±10%	10	0.796	3.5	2400.0	0.45	0.42
ASS1240102KLB-□□□	1000.0±10%	16	0.252	2.8	3000.0	0.42	0.40

1. Electrical specifications at 25°C
2. Inductance Test Freq.: 100kHz / 0.1V
3. Irms base on Temp. rise 40°C typ.
4. Isat base on ΔL/L0A=25% typ.

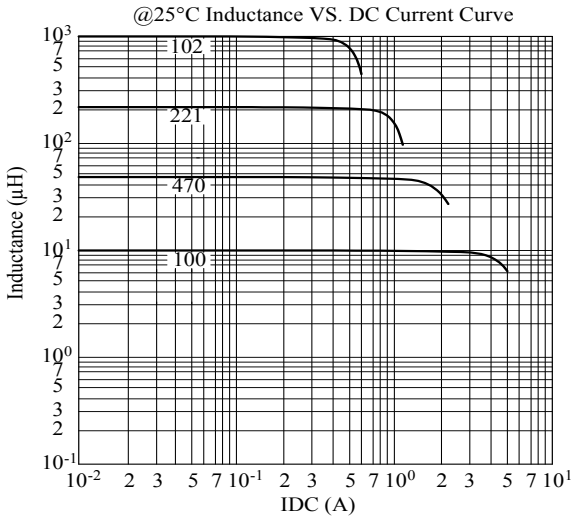
ASS1260 Series							
DWG. No.	Inductance (µH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
ASS12601R0YFB-□□□	1.0±30%	26	7.96	100.00	7.8	9.40	10.00
ASS12601R2YFB-□□□	1.2±30%	18	7.96	91.10	8.0	9.20	9.80
ASS12601R5YFB-□□□	1.5±30%	24	7.96	86.00	9.5	8.80	9.00
ASS12602R2YFB-□□□	2.2±30%	22	7.96	70.00	10.5	8.20	8.50
ASS12602R4YFB-□□□	2.4±30%	18	7.96	63.80	11.5	7.80	8.00
ASS12603R3YFB-□□□	3.3±30%	20	7.96	40.00	12.0	7.60	7.80
ASS12603R5YFB-□□□	3.5±30%	22	7.96	37.60	13.0	7.50	7.60
ASS12604R7YFB-□□□	4.7±30%	19	7.96	36.70	15.5	6.80	7.00
ASS12605R6YFB-□□□	5.6±30%	19	7.96	33.00	16.2	6.70	6.90
ASS12606R1YFB-□□□	6.1±30%	21	7.96	29.80	17.0	6.60	6.80
ASS12606R8YFB-□□□	6.8±30%	20	7.96	28.20	18.0	6.30	6.50
ASS12607R6YFB-□□□	7.6±30%	16	7.96	27.90	19.0	6.00	6.20
ASS12608R2YFB-□□□	8.2±30%	18	7.96	24.00	19.5	5.70	5.80
ASS1260100MFB-□□□	10.0±20%	32	2.52	21.00	20.0	5.50	5.50
ASS1260120MFB-□□□	12.0±20%	27	2.52	19.40	23.0	5.20	5.00
ASS1260150MFB-□□□	15.0±20%	25	2.52	17.60	27.0	5.00	4.60
ASS1260180MFB-□□□	18.0±20%	28	2.52	15.50	36.0	4.20	3.90
ASS1260220MFB-□□□	22.0±20%	29	2.52	13.40	43.0	4.00	3.70
ASS1260270MFB-□□□	27.0±20%	26	2.52	12.70	45.0	3.60	3.30
ASS1260330MFB-□□□	33.0±20%	27	2.52	9.97	60.0	3.00	2.80
ASS1260390MFB-□□□	39.0±20%	22	2.52	10.40	70.0	2.80	2.70
ASS1260470MFB-□□□	47.0±20%	22	2.52	7.63	86.0	2.60	2.50
ASS1260560MFB-□□□	56.0±20%	24	2.52	7.92	100.0	2.30	2.20
ASS1260680MFB-□□□	68.0±20%	22	2.52	7.43	110.0	2.10	2.10
ASS1260820MFB-□□□	82.0±20%	25	2.52	6.85	145.0	1.95	1.90
ASS1260101MFB-□□□	100.0±20%	26	0.796	6.07	180.0	1.70	1.70
ASS1260121KFB-□□□	120.0±10%	26	0.796	5.50	210.0	1.65	1.65
ASS1260151KFB-□□□	150.0±10%	20	0.796	5.00	260.0	1.55	1.55
ASS1260181KFB-□□□	180.0±10%	26	0.796	4.50	320.0	1.40	1.40
ASS1260221KFB-□□□	220.0±10%	22	0.796	4.20	380.0	1.38	1.30
ASS1260271KFB-□□□	270.0±10%	20	0.796	3.60	450.0	1.30	1.20
ASS1260331KFB-□□□	330.0±10%	22	0.796	3.20	580.0	1.15	1.10
ASS1260391KFB-□□□	390.0±10%	20	0.796	2.80	700.0	1.08	1.00
ASS1260471KFB-□□□	470.0±10%	18	0.796	2.60	820.0	0.95	0.90
ASS1260561KFB-□□□	560.0±10%	22	0.796	2.40	1000.0	0.88	0.80
ASS1260681KFB-□□□	680.0±10%	18	0.796	2.20	1150.0	0.80	0.75
ASS1260821KFB-□□□	820.0±10%	20	0.796	2.00	1500.0	0.73	0.63
ASS1260102KFB-□□□	1000.0±10%	30	0.252	1.80	1700.0	0.68	0.60

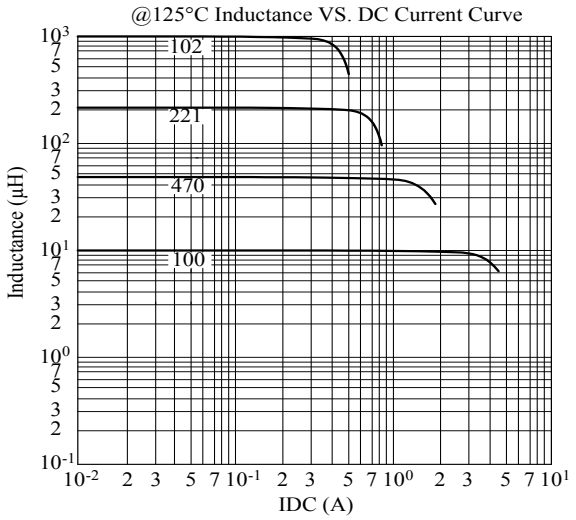
1. Electrical specifications at 25°C
2. L Test Freq.: 100kHz / 0.1V (1R0Y~8R2Y), 1kHz / 1V (100M~102K)
3. Irms base on Temp. rise 40°C typ.
4. Isat base on ΔL/L0A=25% typ.

MSS1280 Series							
DWG. No.	Inductance (µH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
MSS12802R4YFB-□□□	2.4±30%	30	7.96	36	10.0	9.20	12.00
MSS12803R9YFB-□□□	3.9±30%	28	7.96	34	14.0	8.40	10.50
MSS12804R7YFB-□□□	4.7±30%	22	7.96	30	15.5	8.20	8.80
MSS12806R8YFB-□□□	6.8±30%	20	7.96	22	18.5	7.60	8.00
MSS12808R2YFB-□□□	8.2±30%	22	2.52	20	20.5	6.20	6.80
MSS1280100MFB-□□□	10.0±20%	24	2.52	17	19.5	6.00	6.60
MSS1280120MFB-□□□	12.0±20%	26	2.52	15	28.0	5.60	6.30
MSS1280150MFB-□□□	15.0±20%	26	2.52	13	28.5	5.20	5.00
MSS1280180MFB-□□□	18.0±20%	24	2.52	12	35.0	4.80	4.60
MSS1280220MFB-□□□	22.0±20%	20	2.52	11	38.6	4.30	4.10
MSS1280270MFB-□□□	27.0±20%	26	2.52	10	52.0	3.90	3.70
MSS1280330MFB-□□□	33.0±20%	28	2.52	9.5	57.0	3.50	3.30
MSS1280390MFB-□□□	39.0±20%	24	2.52	8.5	70.0	3.20	3.10
MSS1280470MFB-□□□	47.0±20%	24	2.52	7.5	80.0	2.90	2.80
MSS1280560MFB-□□□	56.0±20%	24	2.52	7.0	100.0	2.60	2.50
MSS1280680MFB-□□□	68.0±20%	20	2.52	6.5	120.0	2.40	2.30
MSS1280820MFB-□□□	82.0±20%	20	2.52	5.0	130.0	2.30	2.20
MSS1280101MFB-□□□	100.0±20%	18	0.796	4.5	150.0	2.10	2.00
MSS1280121KFB-□□□	120.0±10%	16	0.796	4.3	200.0	1.95	1.95
MSS1280151KFB-□□□	150.0±10%	24	0.796	4.1	270.0	1.85	1.90
MSS1280181KFB-□□□	180.0±10%	24	0.796	4.0	300.0	1.75	1.88
MSS1280221KFB-□□□	220.0±10%	24	0.796	3.4	400.0	1.60	1.70
MSS1280271KFB-□□□	270.0±10%	20	0.796	3.1	450.0	1.20	1.60
MSS1280331KFB-□□□	330.0±10%	18	0.796	2.9	600.0	1.10	1.40
MSS1280391KFB-□□□	390.0±10%	20	0.796	2.7	680.0	1.00	1.40
MSS1280471KFB-□□□	470.0±10%	20	0.796	2.2	880.0	0.90	1.25
MSS1280561KFB-□□□	560.0±10%	20	0.796	2.0	960.0	0.80	1.15
MSS1280681KFB-□□□	680.0±10%	26	0.796	1.7	1300.0	0.75	0.97
MSS1280821KFB-□□□	820.0±10%	20	0.796	1.4	1500.0	0.70	0.94
MSS1280102KFB-□□□	1000.0±10%	40	0.252	1.3	1700.0	0.68	0.80
MSS1280122KFB-□□□	1200.0±10%	40	0.252	1.1	2200.0	0.55	0.65

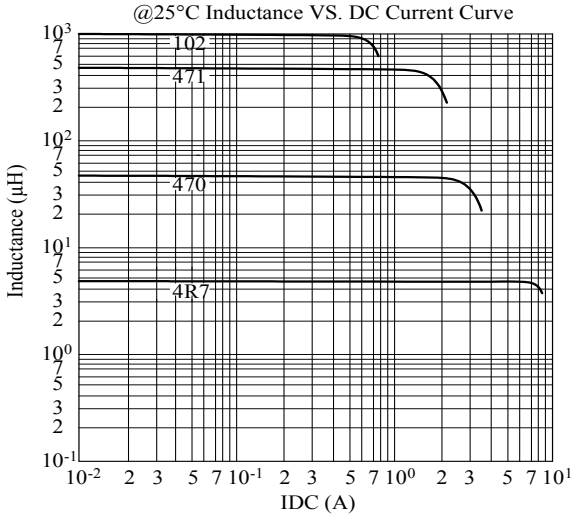
1. Electrical specifications at 25°C
2. L Test Freq.: 2R4~8R2 : 100kHz / 1V , 100~122 : 1kHz / 1V
3. Irms base on Temp. rise 40°C typ.
4. Isat base on ΔL/L0A=25% typ.

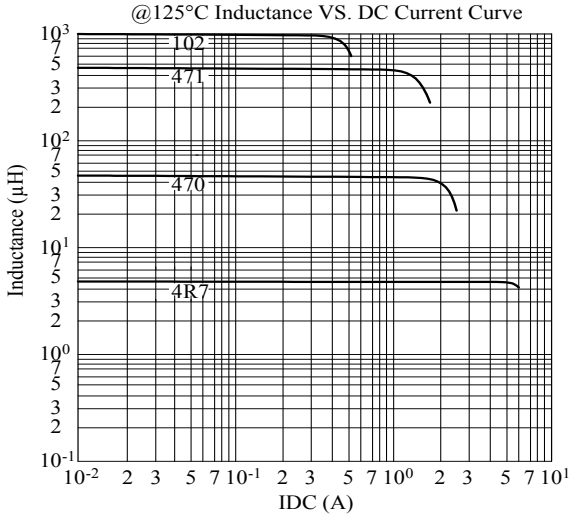
ASS1240 Series



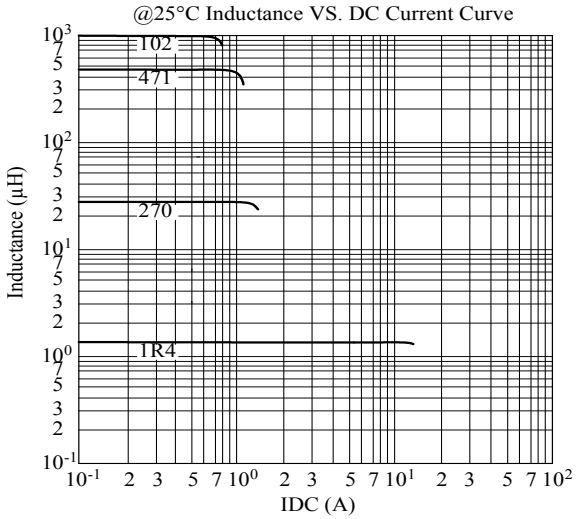


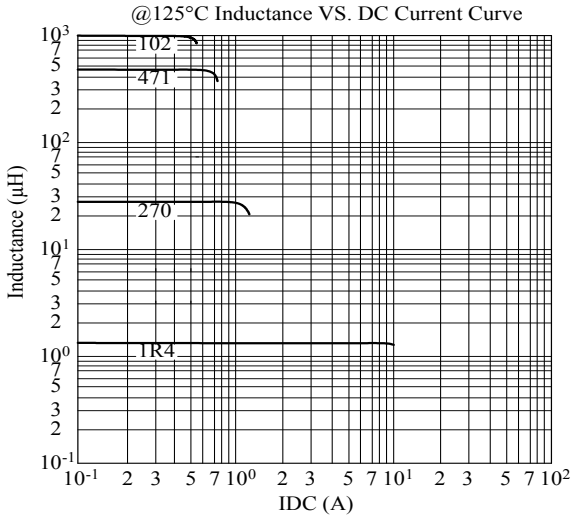
ASS1260 Series





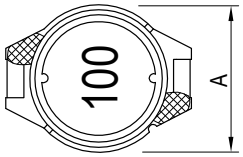
MSS1280 Series

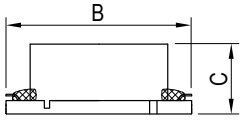


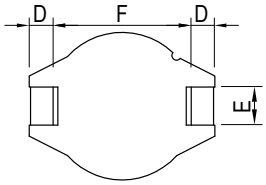


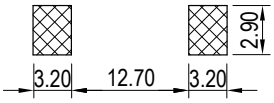
ASS SERIES 1806

High Inductance









(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F
ASS1806	14.00±0.50	18.20±0.50	6.80±0.30	2.50±0.20	2.60±0.20	13.00±0.30

Features

- Magnetic shielding allows high-density mounting
- Glazing base termination offers excellent terminal strength
- Wide inductance from 1 to 1,000 µH
- Excellent current handling capability
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

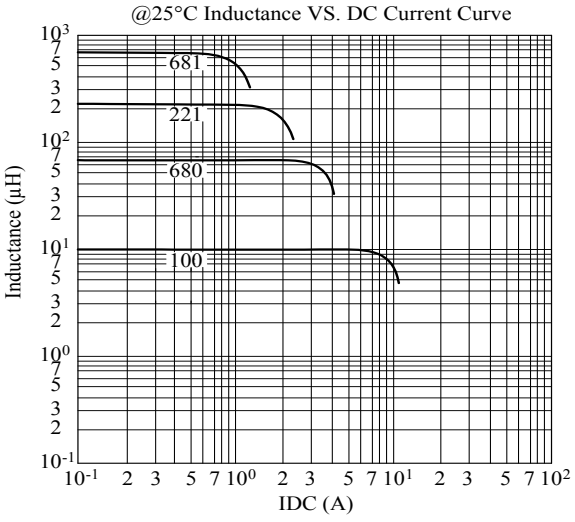
Application

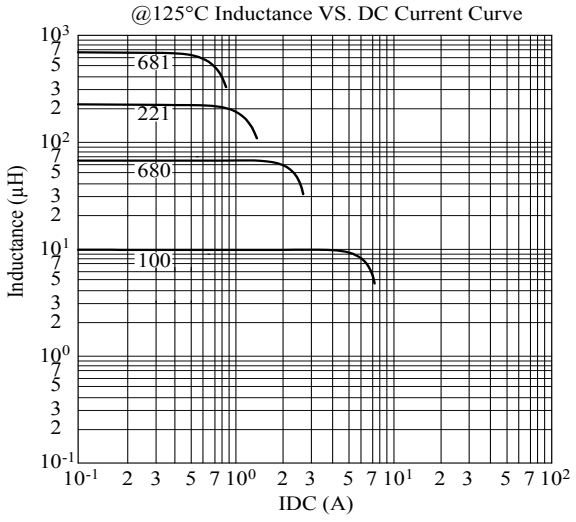
- LED lighting
- HVAC
- Infotainment
- BCM

ASS1806 Series							
DWG. No.	Inductance (μH) 100k/0.1V	Q		SRF (MHz) typ.	RDC (Ω) max.	Irms (A)	Isat (A)
		ref.	Test Freq. (Hz)				
ASS1806100MLB-□□□	10.0±20%	56	2.52M	19.0	0.040	4.00	8.20
ASS1806150MLB-□□□	15.0±20%	53	2.52M	17.5	0.052	3.60	7.20
ASS1806220MLB-□□□	22.0±20%	51	2.52M	16.0	0.070	3.00	6.20
ASS1806330MLB-□□□	33.0±20%	44	2.52M	10.0	0.100	2.50	5.00
ASS1806470MLB-□□□	47.0±20%	40	2.52M	8.0	0.130	2.00	4.20
ASS1806680MLB-□□□	68.0±20%	37	2.52M	6.0	0.200	1.60	3.40
ASS1806101MLB-□□□	100.0±20%	40	0.796M	4.6	0.320	1.30	2.60
ASS1806151MLB-□□□	150.0±20%	39	0.796M	4.3	0.500	1.05	2.30
ASS1806221MLB-□□□	220.0±20%	29	0.796M	3.5	0.600	1.00	1.90
ASS1806331MLB-□□□	330.0±20%	30	0.796M	3.0	0.920	0.80	1.40
ASS1806471MLB-□□□	470.0±20%	27	0.796M	2.4	1.150	0.64	1.30
ASS1806681MLB-□□□	680.0±20%	19	0.796M	2.1	1.700	0.54	1.10
ASS1806102MLB-□□□	1000.0±20%	46	0.252M	1.5	2.450	0.45	0.90

1. Electrical specifications at 25°C
2. Irms Base on ΔT=40°C typ.
3. Isat Base on ΔL/L0A=10% typ.
4. Inductance test condition 100kHz/0.1V

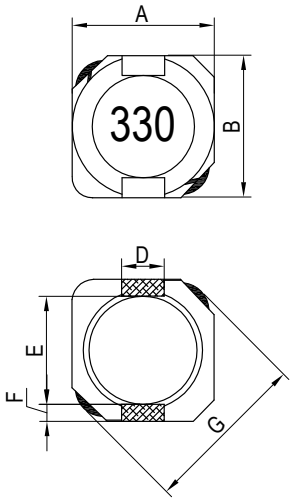
ASS1806 Series





ACU SERIES 1048

High Current



Unit: mm

Series	A	B	C	D	E	F	G
ACU1048	10.00±0.30	10.20±0.30	4.80±0.30	3.00±0.30	7.80±0.40	1.20±0.15	13.00 ref.

Features

- Metal terminal direct clip on outside body
- Magnetic shielding allows high-density mounting
- High current
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

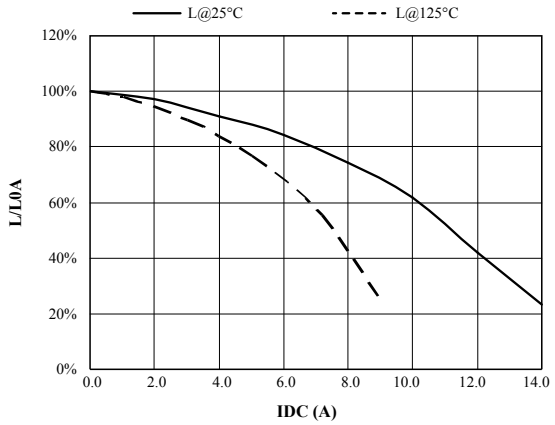
Application

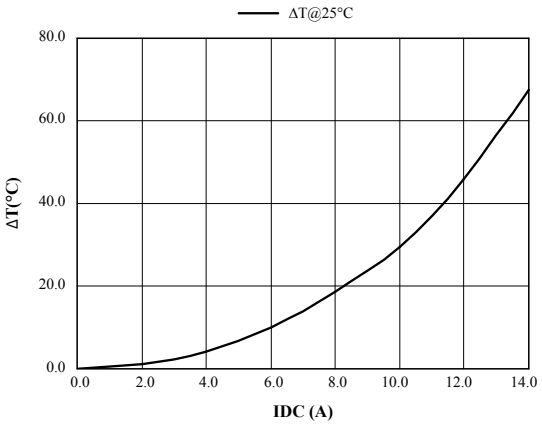
- LED lighting
- HVAC
- Infotainment
- BCM

ACU1048 Series						
DWG. No.	Inductance (μH)	SRF (MHz) ref.	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
			typ.	max.		
ACU1048R68YFB-□□□	0.68±30%	110.0	4.5	5.5	13.5	9.50
ACU10481R2YFB-□□□	1.2±30%	85.0	5.8	7.0	10.5	8.30
ACU10482R2YFB-□□□	2.2±30%	53.0	7.1	9.0	8.20	7.20
ACU10483R3YFB-□□□	3.3±30%	40.0	8.6	11.0	7.80	6.50
ACU10484R2YFB-□□□	4.2±30%	29.0	10.4	14.0	6.40	6.10
ACU10486R8YFB-□□□	6.8±30%	27.0	15.1	19.0	5.40	5.40
ACU10488R2YFB-□□□	8.2±30%	21.0	18.1	22.0	4.85	5.00
ACU1048100YFB-□□□	10.0±30%	16.5	23.0	31.0	4.45	4.50
ACU1048120YFB-□□□	12.0±30%	15.0	26.0	35.0	4.00	3.80
ACU1048150YFB-□□□	15.0±30%	14.0	35.0	47.0	3.60	3.40
ACU1048180YFB-□□□	18.0±30%	11.0	38.0	51.0	3.20	3.10
ACU1048220YFB-□□□	22.0±30%	10.5	46.0	62.0	2.95	2.90
ACU1048270YFB-□□□	27.0±30%	10.0	57.0	77.0	2.70	2.60
ACU1048330YFB-□□□	33.0±30%	9.0	69.0	93.0	2.40	2.50
ACU1048390YFB-□□□	39.0±30%	6.8	79.0	106.0	2.30	2.25
ACU1048470YFB-□□□	47.0±30%	5.9	94.0	127.0	2.00	2.00
ACU1048560YFB-□□□	56.0±30%	5.5	124.0	160.0	1.90	1.90
ACU1048680YFB-□□□	68.0±30%	5.0	138.0	208.0	1.65	1.60
ACU1048820YFB-□□□	82.0±30%	4.5	150.0	230.0	1.50	1.45
ACU1048101YFB-□□□	100.0±30%	4.2	179.0	255.0	1.35	1.35
ACU1048121YFB-□□□	120.0±30%	3.8	213.0	305.0	1.28	1.18
ACU1048151YFB-□□□	150.0±30%	3.6	253.0	370.0	1.12	1.10
ACU1048181YFB-□□□	180.0±30%	3.4	307.0	420.0	1.04	1.00
ACU1048221YFB-□□□	220.0±30%	3.0	373.0	500.0	0.94	0.94
ACU1048271YFB-□□□	270.0±30%	2.4	491.0	675.0	0.84	0.80
ACU1048331YFB-□□□	330.0±30%	2.0	613.0	815.0	0.75	0.73
ACU1048471YFB-□□□	470.0±30%	1.8	990.0	1200.0	0.70	0.60

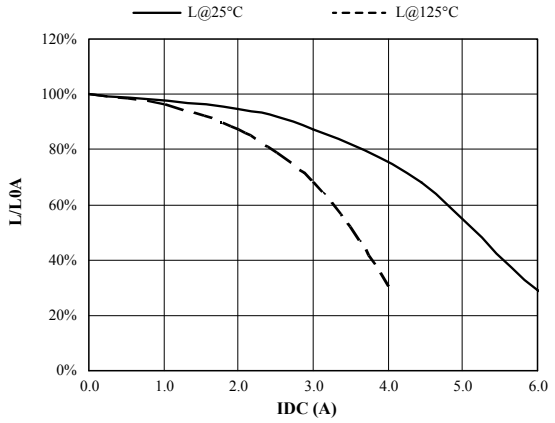
1. Electrical specifications at 25°C
2. Inductance test condition.: 100kHz / 0.1V
3. Irms base on temp. rise 40°C typ.
4. Isat base on ΔL/L0A=35% typ.

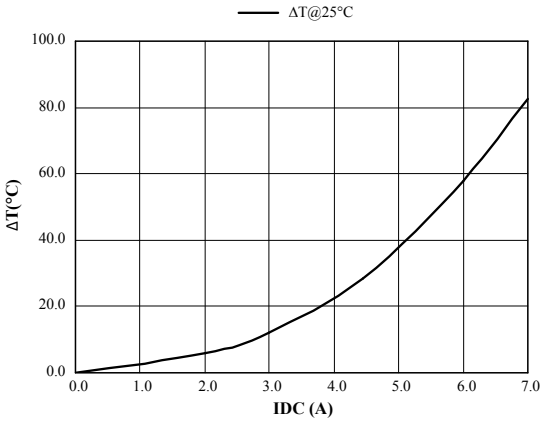
ACU10488R2YFB



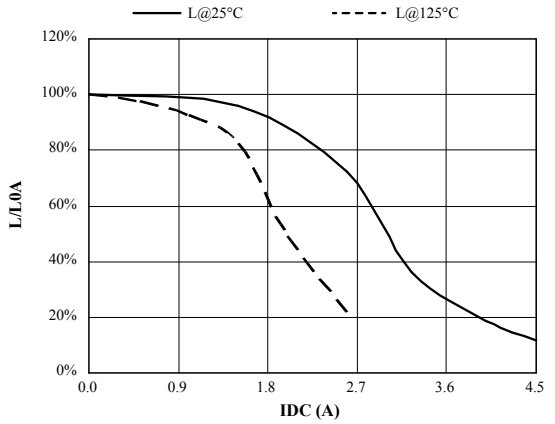


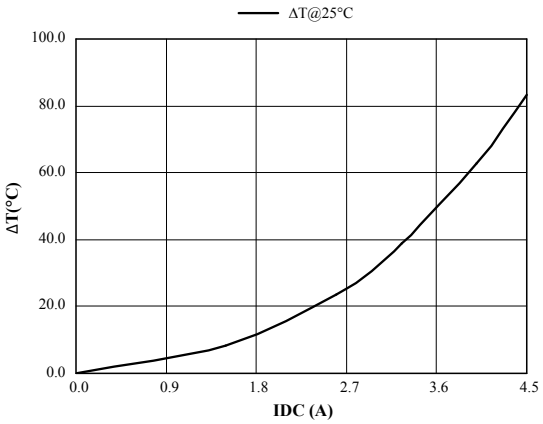
ACU1048100YFB





ACU1048270YFB





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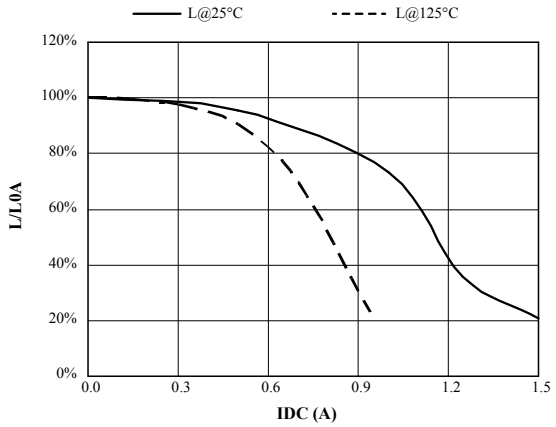
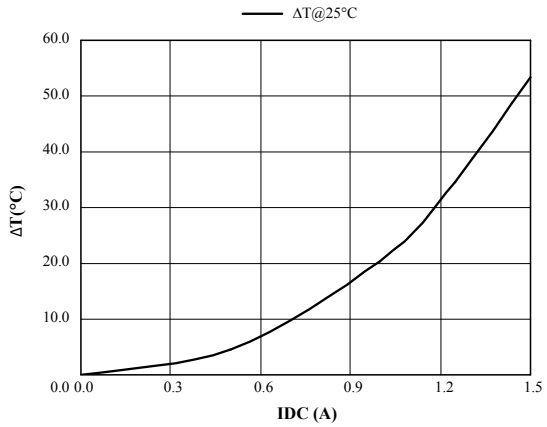
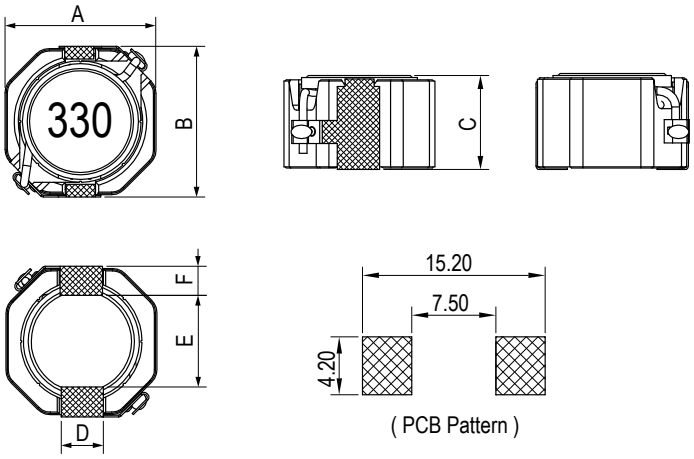




MCU SERIES 1277

High Current



Unit: mm

Series	A	B	C	D	E	F
MCU1227	12.50±0.30	12.80±0.30	7.70±0.30	3.50±0.15	7.80 typ.	2.50±0.30

Features

- Metal terminal direct clip on outside body
- Magnetic shielding allows high-density mounting
- High current
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

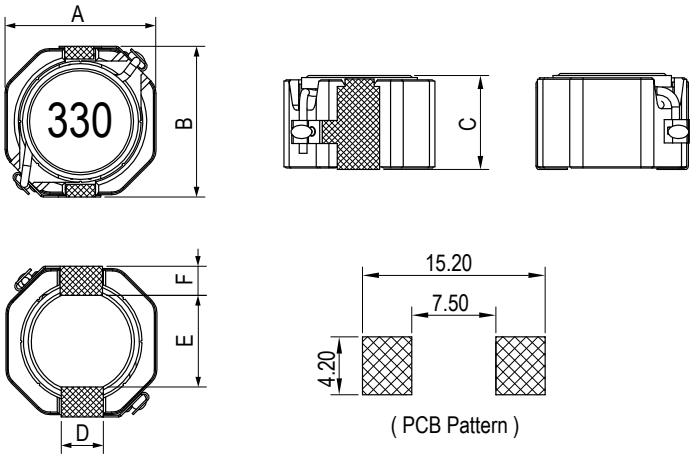
compliant RoHS RoHS & HF compliant

Application

- LED lighting
- HVAC
- Infotainment
- BCM

MCU SERIES 1277

High Current



Unit: mm

Series	A	B	C	D	E	F
MCU1227	12.50±0.30	12.80±0.30	7.70±0.30	3.50±0.15	7.80 typ.	2.50±0.30

Features

- Metal terminal direct clip on outside body
- Magnetic shielding allows high-density mounting
- High current
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

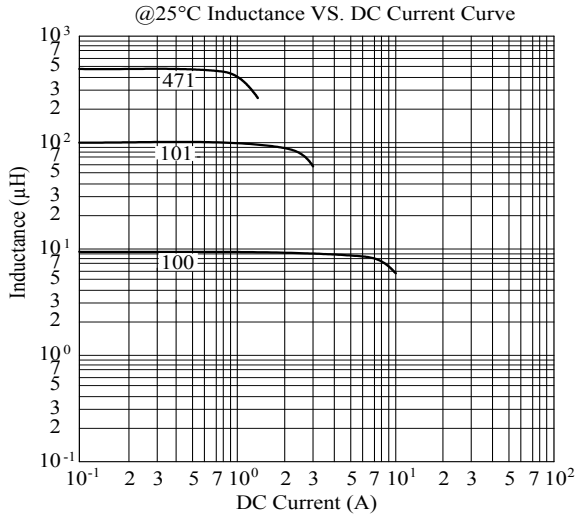
Application

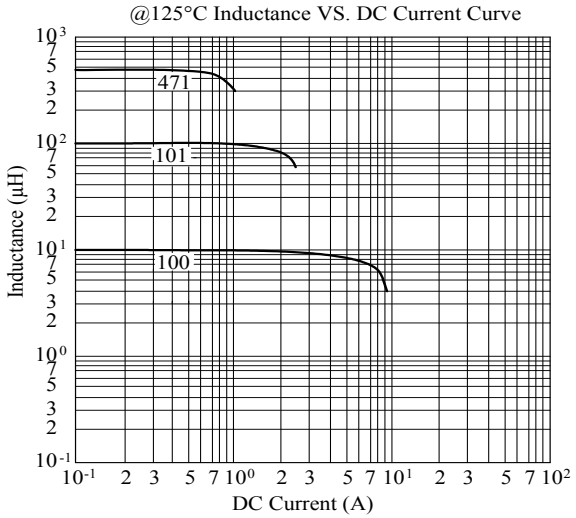
- LED lighting
- HVAC
- Infotainment
- BCM

MCU1227 Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MCU1277220MSB-□□□	22.0±20%	26.55	34.50	5.50	5.80
MCU1277330MSB-□□□	33.0±20%	40.23	52.50	4.00	4.00
MCU1277470MSB-□□□	47.0±20%	47.50	59.50	3.40	3.50
MCU1277680MSB-□□□	68.0±20%	67.50	84.50	3.00	2.95
MCU1277820MSB-□□□	82.0±20%	86.50	108.00	2.60	2.80
MCU1277101MSB-□□□	100.0±20%	101.20	127.00	2.40	2.70
MCU1277151MSB-□□□	150.0±20%	150.00	187.00	1.90	2.20
MCU1277221MSB-□□□	220.0±20%	237.50	295.00	1.70	1.70
MCU1277331MSB-□□□	330.0±20%	324.00	390.00	1.40	1.35
MCU1277471MSB-□□□	470.0±20%	478.00	574.00	1.10	1.20

1. Electrical specifications at 25°C
2. Inductance test condition.: 100kHz / 0.1V
3. Isat base on ΔL/L0A=35% typ.
4. Irms base on temp. rise 40°C typ.

MCU1227 Series



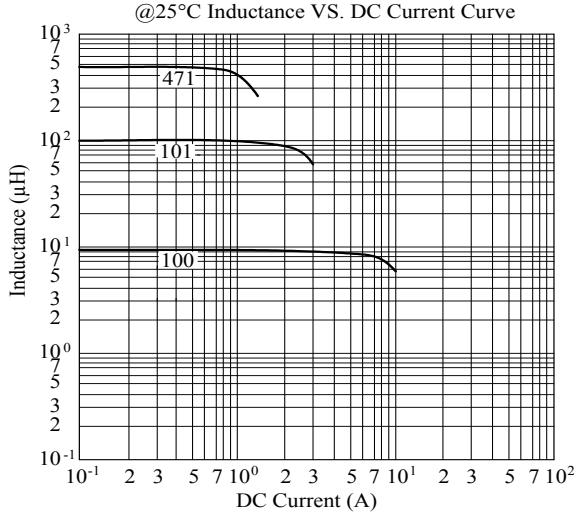


MCU1227 Series					
DWG. No.	Inductance (μH)	RDC (mΩ)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
MCU12771R0YSB-□□□	1.0±30%	4.80	6.24	22.0	11.5
MCU12771R5YSB-□□□	1.5±30%	5.50	7.15	20.0	10.5
MCU12772R2YSB-□□□	2.2±30%	6.30	8.19	16.5	9.70
MCU12773R3YSB-□□□	3.3±30%	7.70	10.00	12.5	9.50
MCU12774R7YSB-□□□	4.7±30%	8.70	11.30	9.60	9.00
MCU12776R8YSB-□□□	6.8±30%	10.00	13.00	7.30	8.50
MCU1277100MSB-□□□	10.0±20%	12.00	14.40	7.20	7.70
MCU1277150MSB-□□□	15.0±20%	16.95	22.00	7.00	6.30
MCU1277220MSB-□□□	22.0±20%	26.55	34.50	5.50	5.80
MCU1277330MSB-□□□	33.0±20%	40.23	52.50	4.00	4.00
MCU1277470MSB-□□□	47.0±20%	47.50	59.50	3.40	3.50
MCU1277680MSB-□□□	68.0±20%	67.50	84.50	3.00	2.95
MCU1277820MSB-□□□	82.0±20%	86.50	108.0	2.60	2.80
MCU1277101MSB-□□□	100.0±20%	101.20	127.0	2.40	2.70
MCU1277151MSB-□□□	150.0±20%	150.00	187.0	1.90	2.20
MCU1277221MSB-□□□	220.0±20%	237.50	295.0	1.70	1.70
MCU1277331MSB-□□□	330.0±20%	324.00	390.0	1.40	1.35
MCU1277471MSB-□□□	470.0±20%	478.00	574.0	1.10	1.20

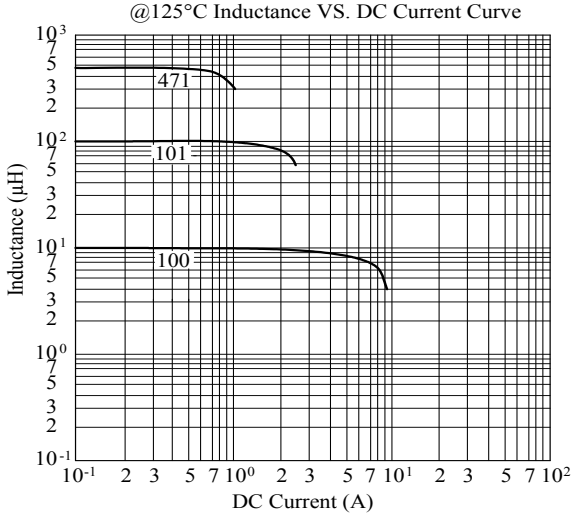
1. Electrical specifications at 25°C
2. Inductance test condition.: 100kHz / 0.1V
3. Isat base on ΔL/L0A=35% typ.
4. Irms base on temp. rise 40°C typ.

MCU1227 Series

@25°C Inductance VS. DC Current Curve

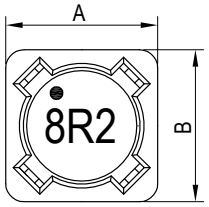


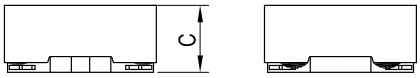
@125°C Inductance VS. DC Current Curve

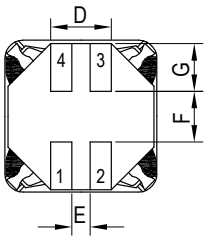


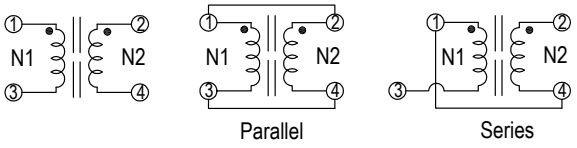
MBF SERIES 0703

Coupled









For PCB pattern information, please see page 104

Unit: mm

Series	A	B	C	D	E	F	G
MBF0703	7.60 max.	7.60 max.	3.40±0.20	2.60±0.30	1.00±0.30	2.70±0.30	2.10±0.50

Features

- Bifilar winding with excellent impendence coupling effect
- Reduces radiated EMI emissions
- Dual winding inductors that can be used as either a single inductor, or in coupled inductor/ transformer applications (1:1 turns ratio)
- AEC-Q200 Grade 0
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

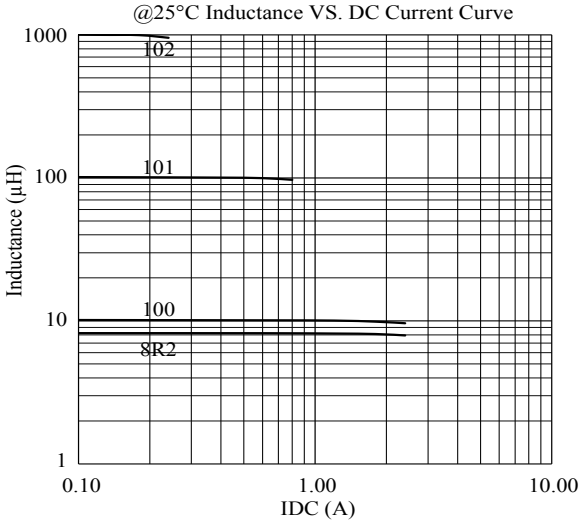
Application

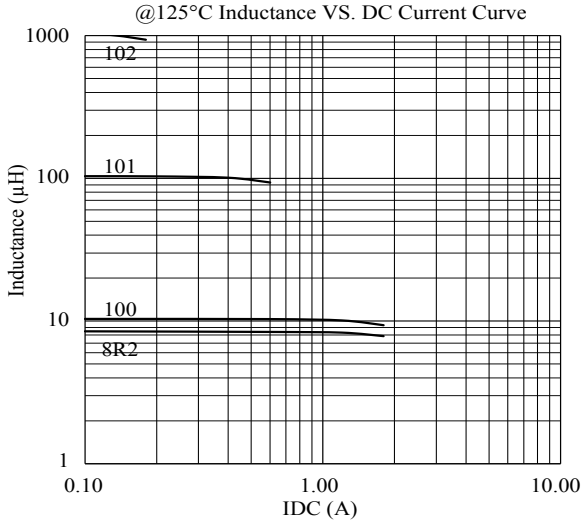
- DC-DC converters

MBF0703 Series								
DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
MBF07038R2MLB-□□□	8.20±20%	77.2	2.66	2.19	34.10±20%	306	1.33	1.100
MBF0703100MLB-□□□	10.00±20%	82.6	2.47	2.08	39.60±20%	342	1.24	1.040
MBF0703150MLB-□□□	15.00±20%	119.0	2.05	1.83	59.60±20%	470	1.03	0.916
MBF0703220MLB-□□□	22.00±20%	150.0	1.67	1.62	89.50±20%	620	0.83	0.811
MBF0703330MLB-□□□	33.00±20%	240.0	1.35	1.31	140.50±20%	1000	0.68	0.653
MBF0703470MLB-□□□	47.00±20%	338.0	1.14	1.08	194.20±20%	1280	0.57	0.542
MBF0703680MLB-□□□	68.00±20%	507.0	0.96	0.89	289.30±20%	1920	0.48	0.444
MBF0703820MLB-□□□	82.00±20%	610.0	0.89	0.86	324.70±20%	2280	0.44	0.430
MBF0703101MLB-□□□	100.00±20%	715.0	0.79	0.73	397.60±20%	2640	0.39	0.367
MBF0703151MLB-□□□	150.00±20%	986.0	0.65	0.58	608.20±20%	3630	0.32	0.289
MBF0703221MLB-□□□	220.00±20%	1480.0	0.53	0.52	922.60±20%	5500	0.27	0.260
MBF0703331MLB-□□□	330.00±20%	2160.0	0.44	0.42	1335.00±20%	8250	0.22	0.211
MBF0703471MLB-□□□	470.00±20%	2820.0	0.37	0.35	1859.00±20%	11220	0.18	0.173
MBF0703681MLB-□□□	680.00±20%	3960.0	0.31	0.29	2930.00±20%	16170	0.15	0.143
MBF0703821MLB-□□□	820.00±20%	5010.0	0.28	0.27	3559.00±20%	20070	0.14	0.134
MBF0703102MLB-□□□	1000.00±20%	6110.0	0.25	0.26	4120.00±20%	24420	0.13	0.128

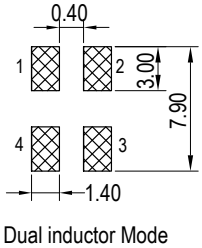
1. Electrical specifications at 25°C
2. L Test Freq.:100kHz / 0.25 V
3. Isat base on ΔL/L0A=30% typ.
4. Irms base on Temp. rise 40°C typ.
5. Hi-Pot test (N1-N2) :500Vac / 60Hz , 3mA , 1sec.

MBF0703 Series

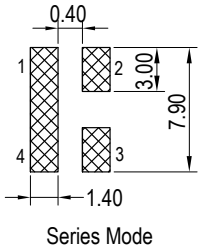




PCB Pattern



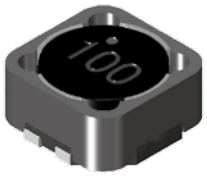
Dual inductor Mode

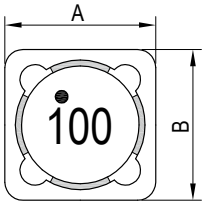


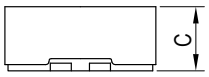
Series Mode

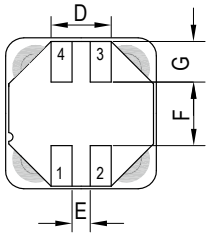
MSF SERIES 1258 / 1278

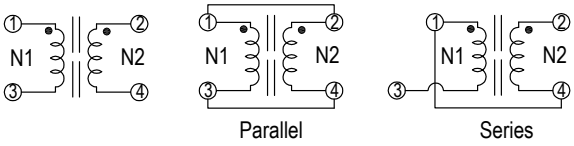
Coupled











For PCB pattern information, please see page 108

Unit: mm

Series	A	B	C	D	E	F	G
MSF1258	12.50 max.	12.50 max.	6.00±0.20	5.00±0.30	1.80±0.20	5.00±0.30	3.50±0.50
MSF1278	12.50 max.	12.50 max.	8.00 max.	5.00±0.30	1.80±0.20	5.00±0.30	3.50±0.50

Features

- Bifilar winding with excellent impendence coupling effect
- Reduces radiated EMI emissions
- Dual winding inductors that can be used as either a single inductor, or in coupled inductor/ transformer applications (1:1 turns ratio)
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

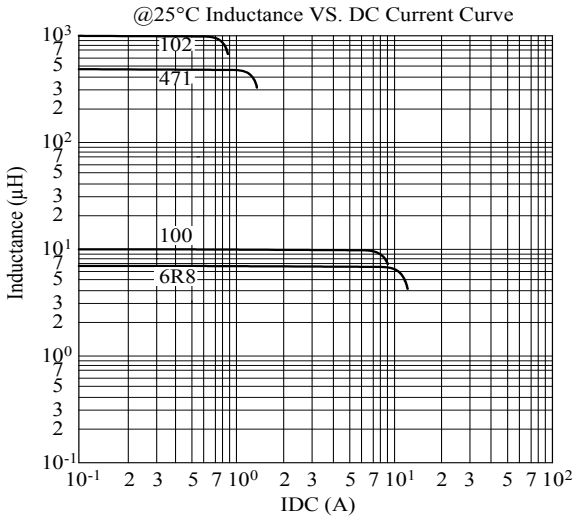
- DC-DC converters

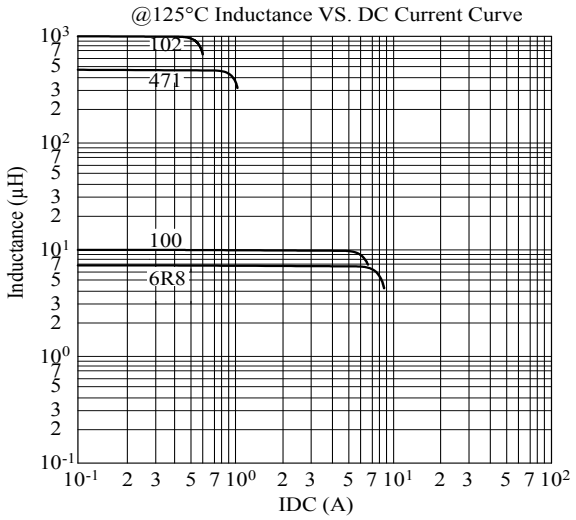
MSF1258 Series								
DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (µH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.	Inductance (µH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
MSF1258R47YLB-□□□	0.47±30%	5.3	33.00	14.60	1.824±30%	21.2	16.500	7.300
MSF12581R0YLB-□□□	1.00±30%	6.2	23.60	12.60	3.576±30%	26.0	11.800	6.300
MSF12581R5YLB-□□□	1.50±30%	7.3	18.30	12.00	5.912±30%	30.2	9.150	5.800
MSF12582R2YLB-□□□	2.20±30%	8.5	15.00	10.90	8.832±30%	33.3	7.500	5.460
MSF12583R3YLB-□□□	3.30±30%	10.1	12.70	9.26	12.340±30%	37.2	6.350	4.630
MSF12584R7YLB-□□□	4.70±30%	13.7	9.71	7.18	21.100±30%	47.9	4.860	3.590
MSF12586R8YLB-□□□	6.80±30%	18.6	8.68	6.64	26.350±30%	67.2	4.340	3.320
MSF12588R2YLB-□□□	8.20±30%	19.4	7.86	5.54	32.190±30%	73.7	3.930	2.770
MSF1258100MLB-□□□	10.00±20%	24.6	7.17	5.35	38.620±20%	93.4	3.590	2.670
MSF1258150MLB-□□□	15.00±20%	32.9	5.69	4.27	61.400±20%	125.0	2.850	2.130
MSF1258220MLB-□□□	22.00±20%	45.1	4.71	3.70	89.440±20%	172.0	2.360	1.840
MSF1258330MLB-□□□	33.00±20%	61.8	3.84	3.28	135.000±20%	256.0	1.920	1.640
MSF1258470MLB-□□□	47.00±20%	86.0	3.24	2.71	189.900±20%	340.0	1.620	1.350
MSF1258680MLB-□□□	68.00±20%	116.5	2.70	2.22	271.600±20%	444.0	1.350	1.110
MSF1258820MLB-□□□	82.00±20%	150.0	2.39	2.05	347.600±20%	568.0	1.200	1.030
MSF1258101MLB-□□□	100.00±20%	171.3	2.20	1.78	410.800±20%	656.0	1.100	0.892
MSF1258151MLB-□□□	150.00±20%	253.8	1.81	1.48	604.400±20%	972.0	0.905	0.739
MSF1258221MLB-□□□	220.00±20%	354.0	1.51	1.19	867.200±20%	1416.0	0.755	0.594
MSF1258331MLB-□□□	330.00±20%	574.0	1.22	1.06	1330.000±20%	2290.0	0.610	0.530
MSF1258471MLB-□□□	470.00±20%	830.0	1.02	0.87	1892.000±20%	3197.0	0.510	0.434
MSF1258681MLB-□□□	680.00±20%	1212.0	0.85	0.70	2719.000±20%	4635.0	0.425	0.350
MSF1258821MLB-□□□	820.00±20%	1460.0	0.77	0.60	3312.000±20%	5363.0	0.385	0.301
MSF1258102MLB-□□□	1000.00±20%	1854.0	0.70	0.57	4032.000±20%	6782.0	0.350	0.283

MSF1278 Series								
DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
MSF1278R47YLB-□□□	0.47±30%	5.5	56.00	14.60	1.676±30%	21.6	28.000	7.300
MSF12781R0YLB-□□□	1.00±30%	6.7	40.00	12.80	3.284±30%	26.0	20.000	6.300
MSF12781R5YLB-□□□	1.50±30%	7.6	31.10	11.40	5.428±30%	30.6	15.600	5.700
MSF12782R2YLB-□□□	2.20±30%	9.2	25.50	10.60	8.108±30%	33.8	12.700	5.300
MSF12783R3YLB-□□□	3.30±30%	11.0	21.50	9.60	11.320±30%	40.0	10.800	4.800
MSF12784R7YLB-□□□	4.70±30%	13.5	16.50	8.25	19.360±30%	50.0	8.240	4.130
MSF12786R8YLB-□□□	6.80±30%	18.3	13.30	7.34	29.550±30%	65.6	6.670	3.670
MSF12788R2YLB-□□□	8.20±30%	19.1	12.20	6.32	35.440±30%	71.4	6.090	3.160
MSF1278100MLB-□□□	10.00±20%	24.1	11.20	6.04	41.880±20%	92.1	5.600	3.020
MSF1278150MLB-□□□	15.00±20%	33.3	9.66	5.03	56.360±20%	129.0	4.830	2.510
MSF1278220MLB-□□□	22.00±20%	50.3	7.57	4.00	91.720±20%	192.0	3.780	2.000
MSF1278330MLB-□□□	33.00±20%	66.4	6.22	3.23	135.700±20%	265.0	3.110	1.610
MSF1278470MLB-□□□	47.00±20%	89.8	5.28	2.95	188.200±20%	353.0	2.640	1.470
MSF1278680MLB-□□□	68.00±20%	123.0	4.44	2.44	265.900±20%	469.0	2.220	1.220
MSF1278820MLB-□□□	82.00±20%	153.0	4.06	2.09	319.000±20%	578.0	2.030	1.040
MSF1278101MLB-□□□	100.00±20%	175.0	3.64	1.96	397.200±20%	701.0	1.820	0.980
MSF1278151MLB-□□□	150.00±20%	261.0	3.01	1.59	579.600±20%	1013.0	1.510	0.796
MSF1278221MLB-□□□	220.00±20%	343.0	2.43	1.29	886.000±20%	1380.0	1.220	0.645
MSF1278331MLB-□□□	330.00±20%	540.0	2.01	1.04	1294.000±20%	2172.0	1.010	0.522
MSF1278471MLB-□□□	470.00±20%	865.0	1.68	0.85	1868.000±20%	3300.0	0.838	0.427
MSF1278681MLB-□□□	680.00±20%	1296.0	1.39	0.76	2707.000±20%	4888.0	0.697	0.380
MSF1278821MLB-□□□	820.00±20%	1632.0	1.27	0.65	3272.000±20%	5896.0	0.633	0.325
MSF1278102MLB-□□□	1000.00±20%	1992.0	1.14	0.61	4020.000±20%	7202.0	0.571	0.307

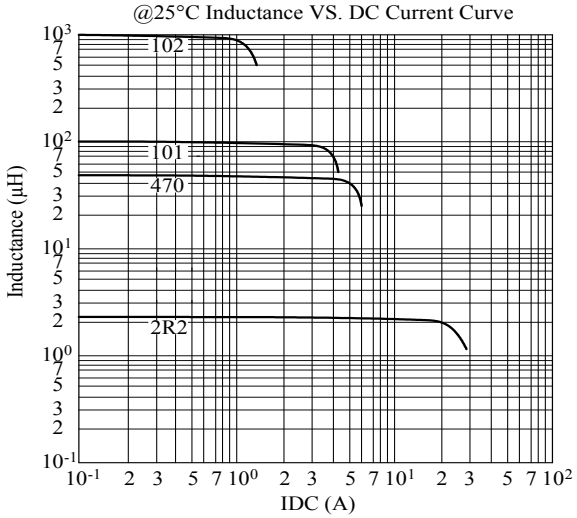
1. Electrical specifications at 25°C
2. Inductance Test Condition.: 100kHz / 0.25V
3. Irms base on Temp. rise 40°C typ.
4. Ipeak base on ΔL/L0A=30% typ.
5. Hi-Pot test (N1-N2): 500Vac / 60Hz , 3mA , 1sec.

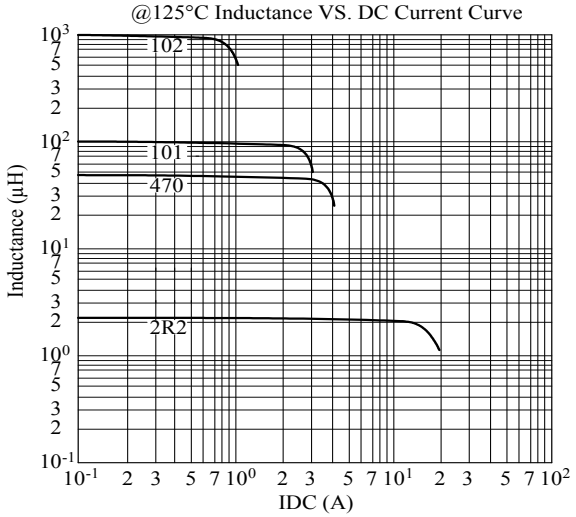
MSF1258 Series



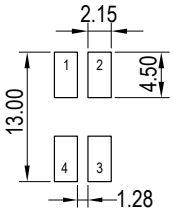


MSF1278 Series

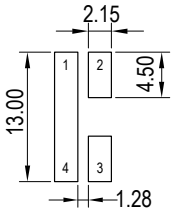




PCB Pattern



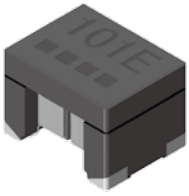
Dual inductor Mode

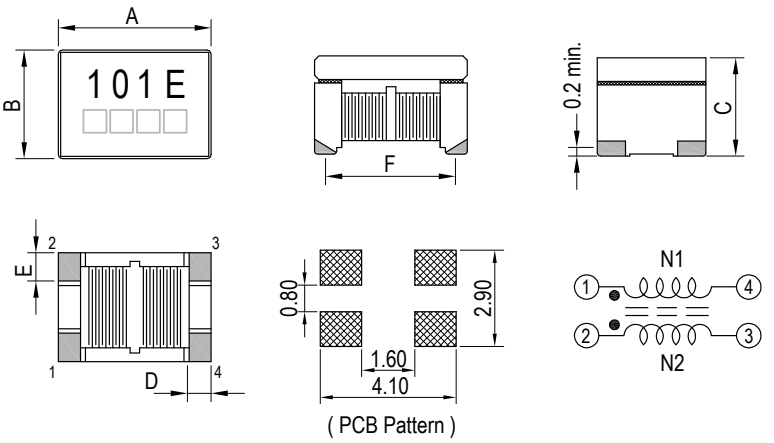


Series Mode

MSF SERIES 3225

Data Line





Unit: mm

Series	A	B	C	D	E	F
MSF3225	3.20±0.20	2.50±0.20	2.40 max.	0.60 ref.	0.65 ref.	2.60 ref.

Features

- Low profile to 2.5mm
- Automatic bifilar winding & core assembly excellent impedance coupling effect
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS RoHS & HF compliant

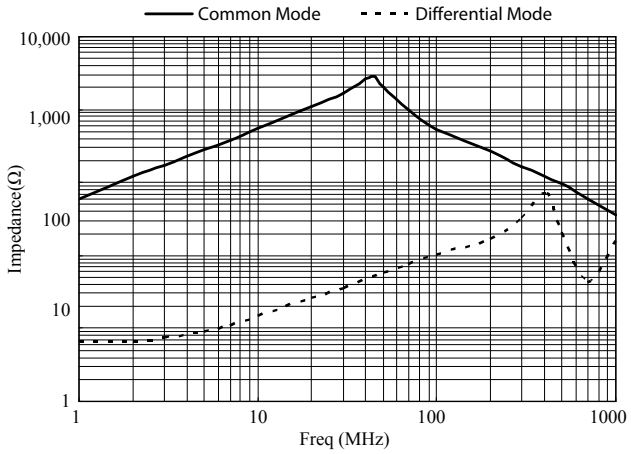
Application

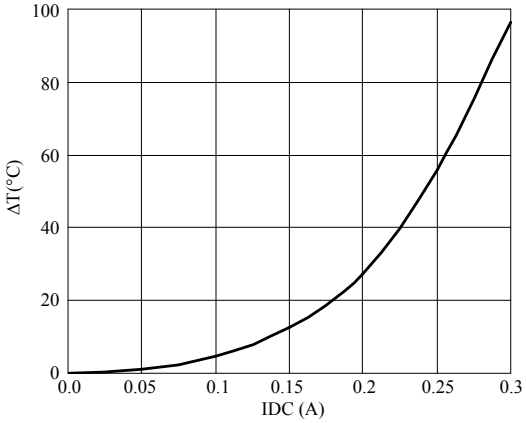
- CAN-BUS

MSF3225 Series						
DWG. No.	Inductance (μH)	Lstray (μH) typ.	RDC (Ω) max.	IDC (A)	Common mode impedance (kΩ) (@10MHz) typ	min.
MSF3225101YEB-□□□	100±50%	0.60	3.50	0.10	5.50	2.00

1. Electrical specifications at 25°C
2. Inductance Test Condition.: 100kHz / 0.1V
3. IDC base on Temp. rise 40°C max.
4. Insulation resistance: 10MΩ min. @50Vdc
5. Rated voltage: 50Vdc

MSF3225101YEB

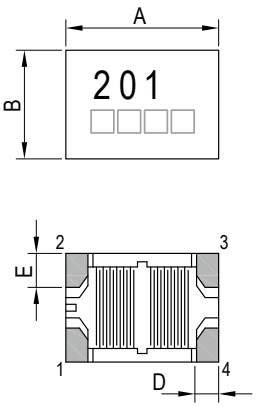




ASF SERIES

4532-E / 4532-C

Data Line



For PCB pattern information, please see page 114

Unit: mm

Series	A	B	C	D	E	F
ASF4532-E	4.50 ±0.20	3.20 ±0.20	3.00 ±0.20	0.70 ref.	1.00 ref.	3.80 ref.
ASF4532-C	4.50 ±0.20	3.20 ±0.20	3.00 ±0.20	0.70 ref.	0.65 ref.	3.80 ref.

Features

- Low profile to 2.5mm
- Automatic bifilar winding & core assembly excellent impedance coupling effect
- AEC-Q200 Grade 1: ASF4532-E
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)
- AEC-Q200 Grade 0: ASF4532-C
- Operating temp.: -55°C ~ +150°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

Application

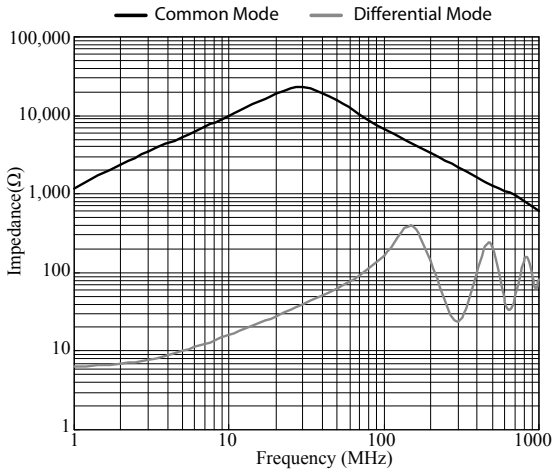
- CAN-BUS

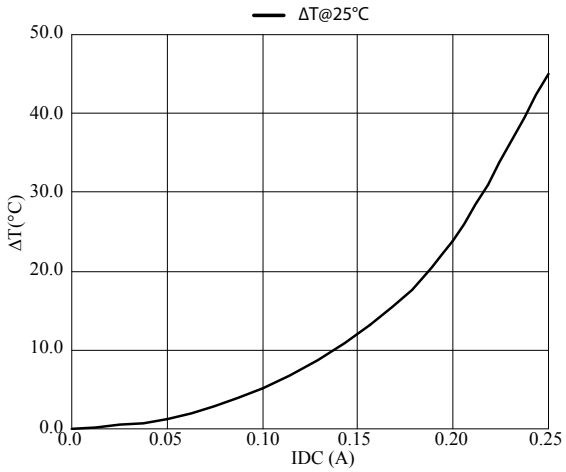
ASF4532-E Series						
DWG. No.	Inductance (μH)	Lstray (μH) typ.	RDC (Ω) max.	IDC (A)	Common mode impedance (kΩ) (@10MHz)	
					min.	typ.
ASF4532201YEB-□□□	200±50%	0.45	4.50	0.11	4.50	10.0

ASF4532-C Series						
DWG. No.	Inductance (μH)	Lstray (μH) typ.	RDC (Ω) max.	IDC (A) max.	Common mode impedance (kΩ) (@10MHz)	
					min.	typ.
ASF4532110YC□-□□□	11.0 +50% -30%	0.10	0.50	0.36	0.30	0.60
ASF4532220YC□-□□□	22.0 +50% -30%	0.15	0.60	0.31	0.60	1.20
ASF4532510YC□-□□□	51.0 +50% -30%	0.30	1.00	0.23	1.50	3.50
ASF4532101YC□-□□□	100.0 +50% -30%	0.35	1.50	0.20	3.00	7.50

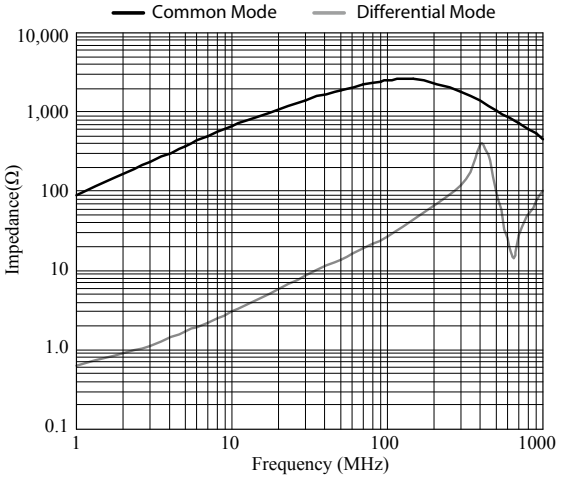
1. Electrical specifications at 25°C
2. Inductance Test Condition.: 100kHz / 0.1V
3. IDC base on Temp. rise 40°C max.
4. Insulation resistance: 10MΩ min. @50Vdc
5. Rated voltage: 50Vdc

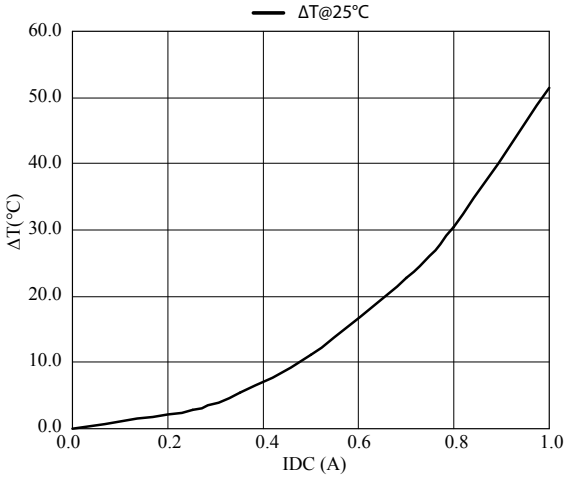
ASF4532201YEB



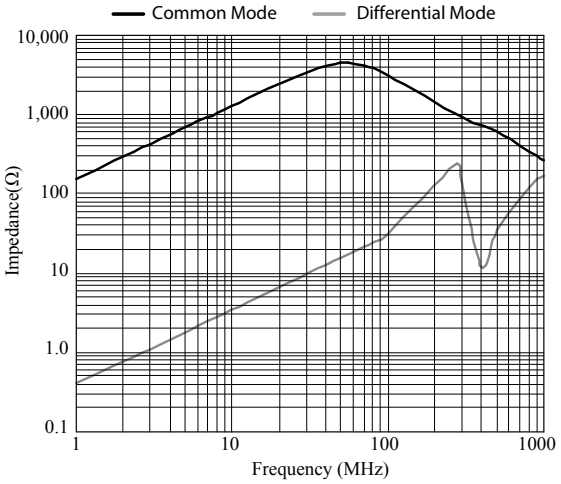


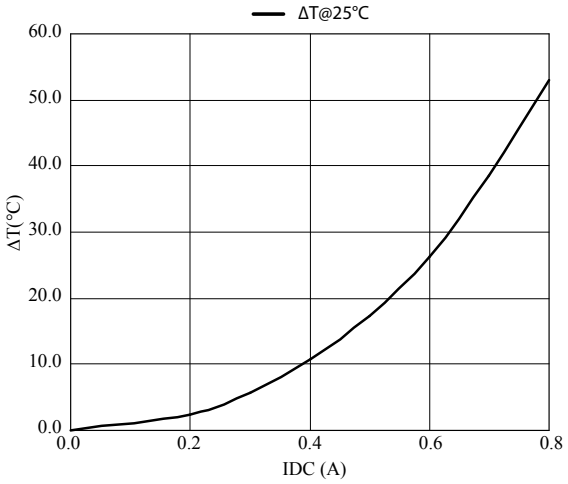
ASF4532110YC□



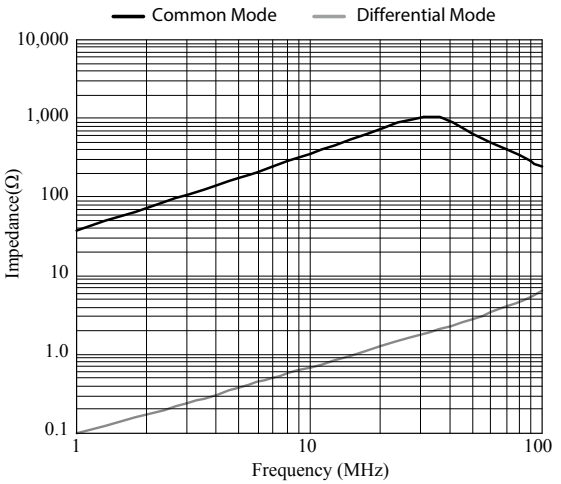


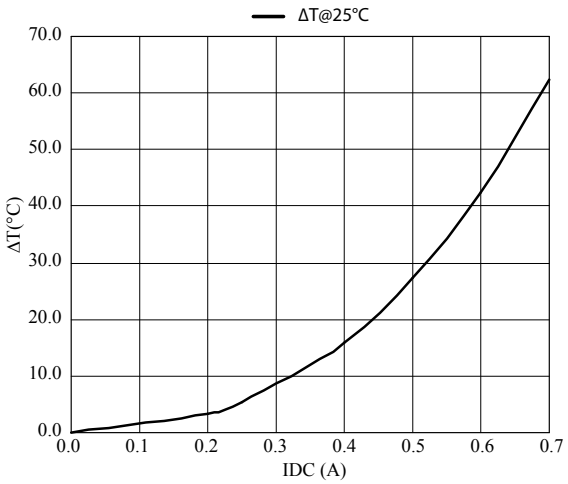
ASF4532220YC□



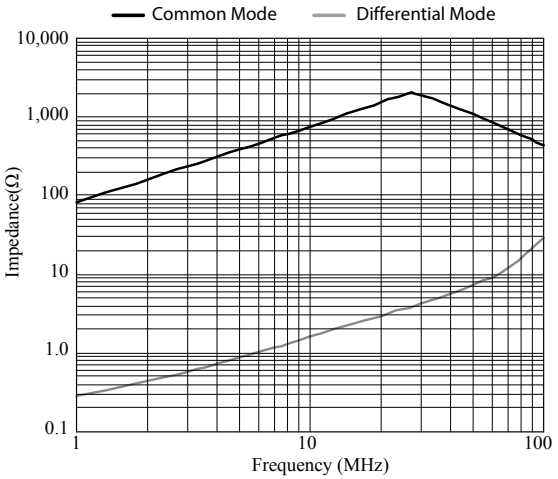


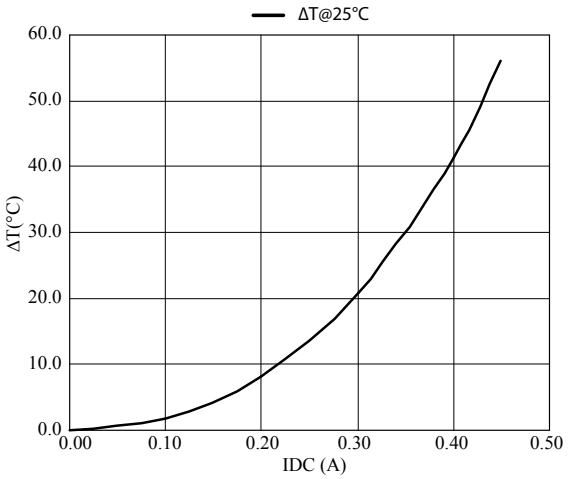
ASF4532510YC□



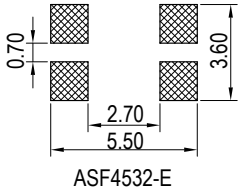


ASF4532101YC□

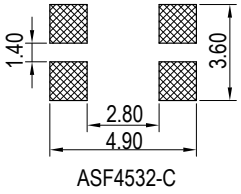




PCB Pattern



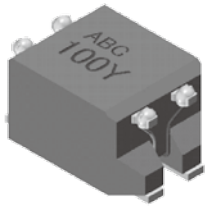
ASF4532-E

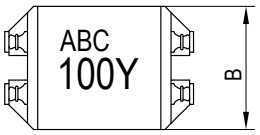


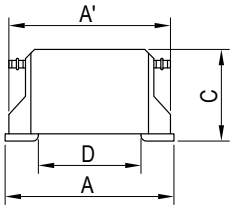
ASF4532-C

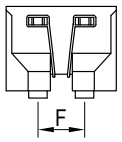
MSF SERIES 9050

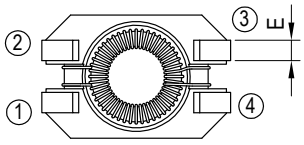
Data Line

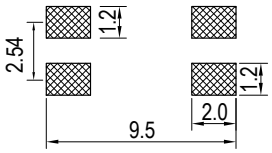




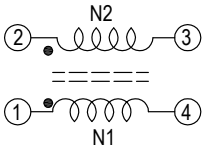








(PCB Pattern)



Unit: mm

Series	A	A'	B	C	D	E	F
MSF9050	9.20±0.30	8.70±0.30	6.00±0.30	5.00±0.30	5.60±0.30	1.00±0.10	2.54 ref.

Features

- Reduces radiated EMI emissions
- AEC-Q200 Grade 2
- Operating temp.: -40°C ~ +105°C
  (including self-temperature rise)

compliant RoHS RoHS & HF compliant

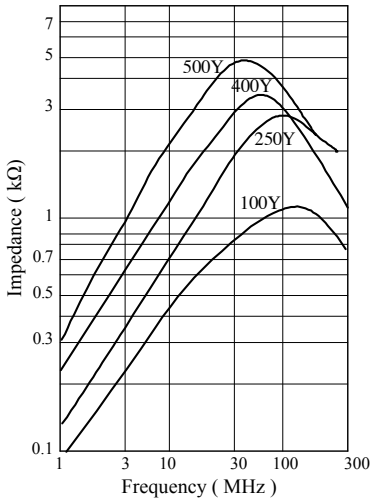
Application

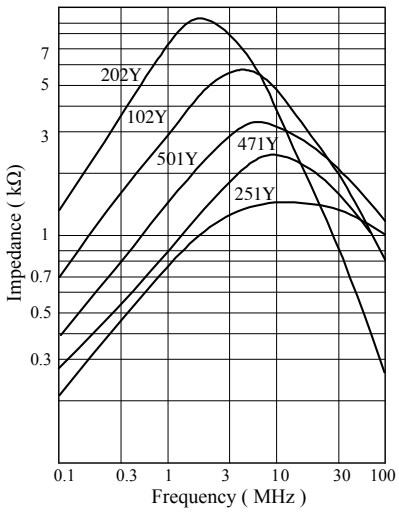
- Suited for LAN and Telecom applications

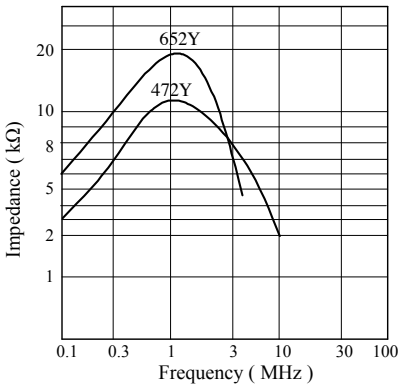
MSF9050 Series							
DWG. No.	Inductance L1 , L2 (μH)	Test condition	DC Resistance N1 , N2 (Ω)	Nominal Voltage Vdc (V)	Rated current (A)	Impedance (Ω)	Freq. Range (MHz)
MSF9050100YSB-□□□	10±30%	0.1V,1kHz	0.08 max.	80	1.6	200 min.	20 ~ 300
MSF9050250YSB-□□□	25±30%	0.1V,1kHz	0.16 max.	80	1.0	600 min.	20 ~ 150
MSF9050400YSB-□□□	40±30%	0.1V,1kHz	0.25 max.	80	0.9	800 min.	20 ~ 100
MSF9050500YSB-□□□	50±30%	0.1V,1kHz	0.32 max.	80	0.8	1500 min.	20 ~ 100
MSF9050251YSB-□□□	250±50%	5mV,100kHz	0.13 max.	80	1.2	600 min.	3 ~ 20
MSF9050471YSB-□□□	470±50%	5mV,100kHz	0.14 max.	80	1.1	1000 min.	2 ~ 20
MSF9050501YSB-□□□	500±50%	5mV,100kHz	0.15 max.	80	1.0	1000 min.	1 ~ 20
MSF9050102YSB-□□□	1000±50%	5mV,100kHz	0.31 max.	80	0.8	1500 min.	1 ~ 15
MSF9050202YSB-□□□	2000±50%	5mV,100kHz	0.42 max.	80	0.6	3000 min.	1 ~ 5
MSF9050472YSB-□□□	4700±50%	5mV,100kHz	0.90 max.	80	0.4	4000 min.	0.3 ~ 3
MSF9050652YSB-□□□	6500±50%	5mV,100kHz	1.05 max.	80	0.3	5000 min.	0.3 ~ 2

1. Electrical specifications at 25°C
2. Irms base on Temp. rise 45°C max.
3. HI-Pot test (N1-N2) : 500Vac / 60Hz , 3mA , 3sec.

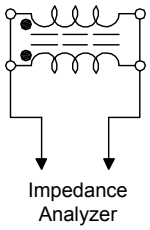
MSF9050 Series







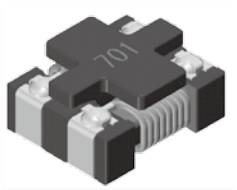
Measuring circuit :

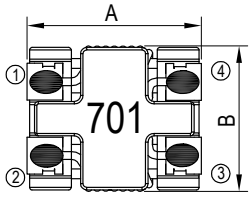


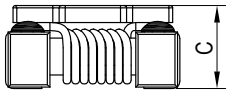
AQF SERIES

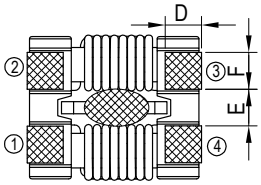
7035 / 9045 / 1260

Power Line

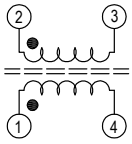








For PCB pattern information, please see page 121



Unit: mm

Series	A	B	C	D	E	F
AQF7035	7.00±0.20	6.00±0.20	3.50 max.	1.50±0.20	1.70±0.20	1.30±0.20
AQF9045	9.00±0.20	7.00±0.20	4.50 max.	1.50±0.20	2.20±0.20	1.30±0.20
AQF1260	12.00±0.30	11.00±0.30	6.00 max.	2.30±0.20	2.70±0.20	2.50±0.20

Features

- Reducing power noise for good performance.
- Low profile for SMD type.
- AEC-Q200 Grade 1
- Operating temp.: -40°C ~ +125°C (including self-temperature rise)

compliant RoHS

RoHS & HF compliant

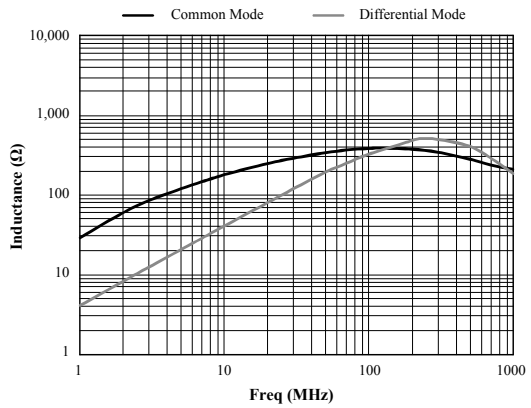
Application

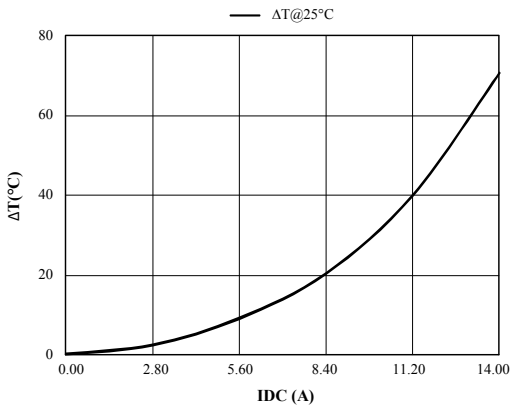
- Power lines noise against for automotive applications.

AQF7035 Series						
DWG. No.	Impedance (Ω)		Test freq. (MHz)	L1, L2 (μH) ref.	RDC1, RDC2 (mΩ) max.	IDC (A) max.
	min.	typ.				
AQF7035301YSB-□□□	225	300	100	4.00	10.0	5.00
AQF7035701YSB-□□□	500	700	100	7.00	15.0	4.00
AQF7035102YSB-□□□	600	1000	100	7.90	23.0	3.00
AQF7035132YSB-□□□	910	1300	100	10.4	25.0	2.50
AQF7035302YSB-□□□	1800	3000	100	22.6	72.0	1.20
AQF9045 Series						
DWG. No.	Impedance (Ω)		Test freq. (MHz)	L1, L2 (μH) ref.	RDC1, RDC2 (mΩ) max.	IDC (A) max.
	min.	typ.				
AQF9045701YSB-□□□	500	700	100	7.50	10.00	5.00
AQF1260 Series						
DWG. No.	Impedance (Ω)		Test freq. (MHz)	L1, L2 (μH) ref.	RDC1, RDC2 (mΩ) max.	IDC (A) max.
	min.	typ.				
AQF1260701YSB-□□□	500	700	100	9.00	6.00	8.00
AQF1260102YSB-□□□	750	1000	100	12.5	14.0	6.00

1. Electrical specifications at 25°C
2. Nominal voltage : 80Vdc
3. Inductance Test condition : 100kHz /0.1V
4. IDC base on temp. rise : 40°C max.
5. Insulation Resistance 10MΩ min.@100Vdc
6. Hi-pot test (N1 to N2) : 500Vac, 3mA , 1sec.

AQF7035301YSB





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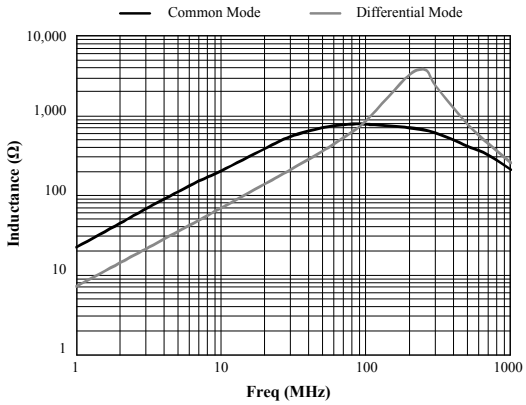

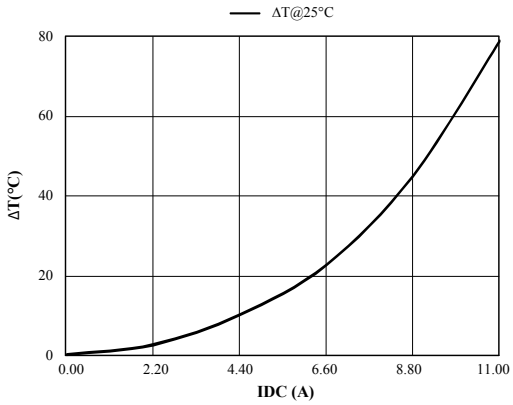

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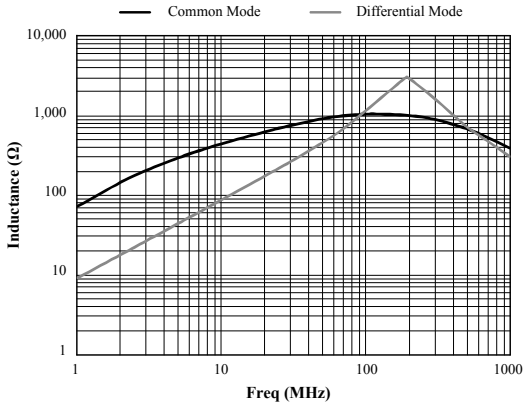

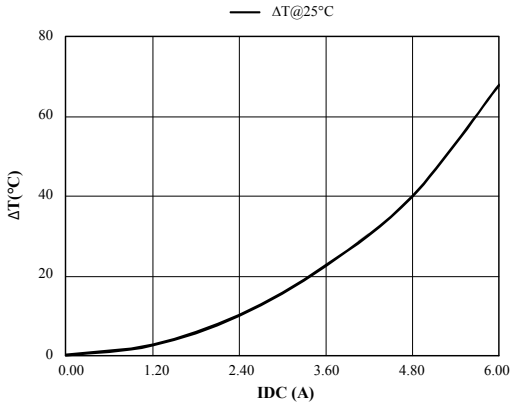

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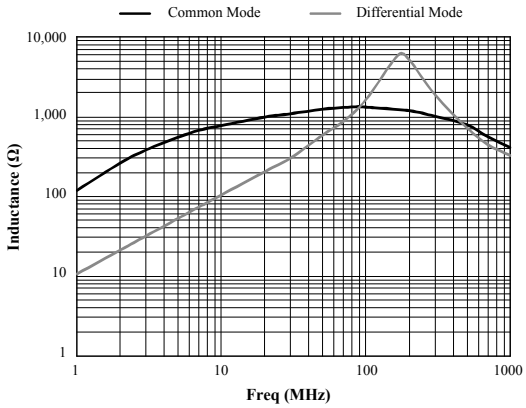

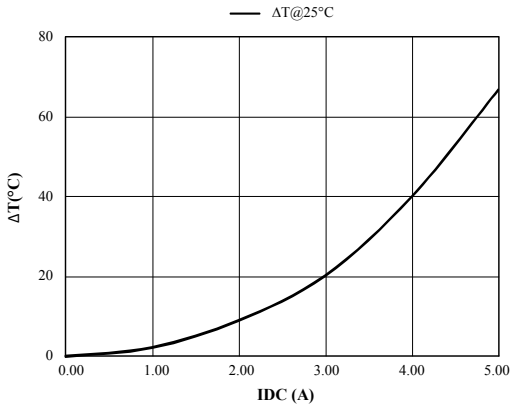

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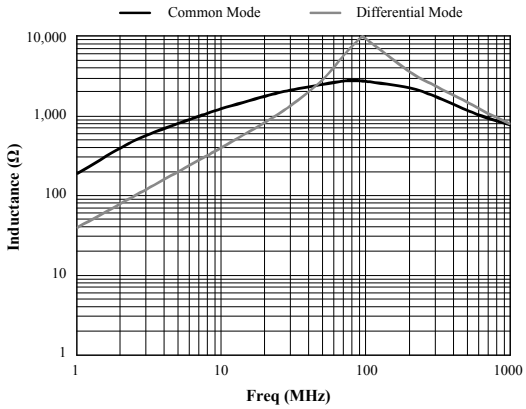

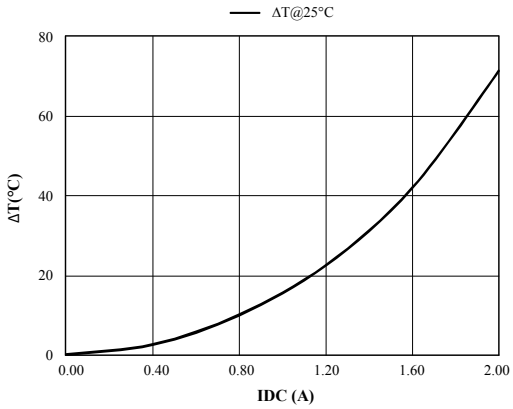

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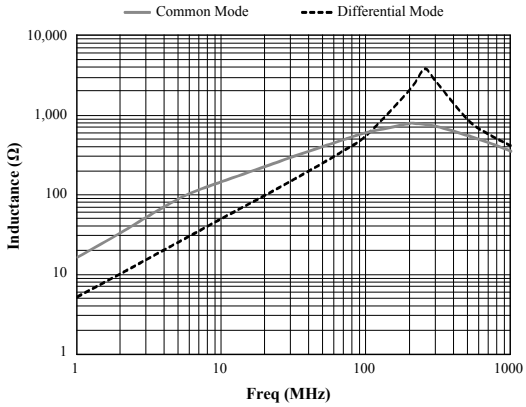

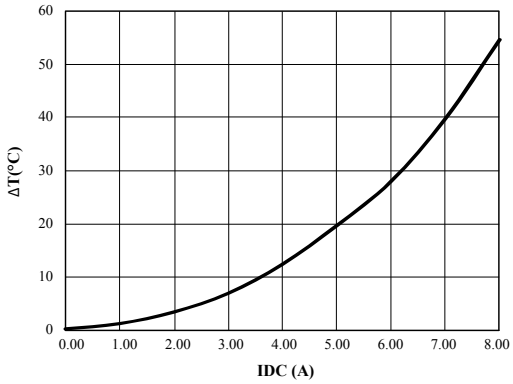

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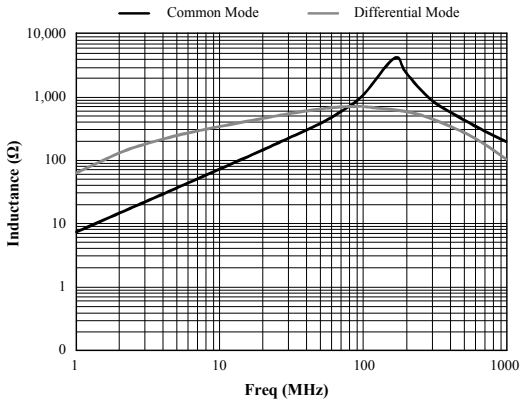

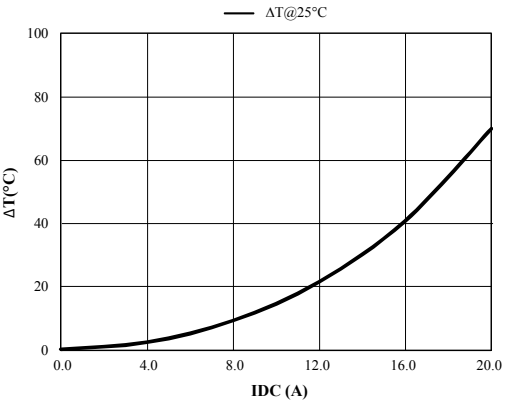

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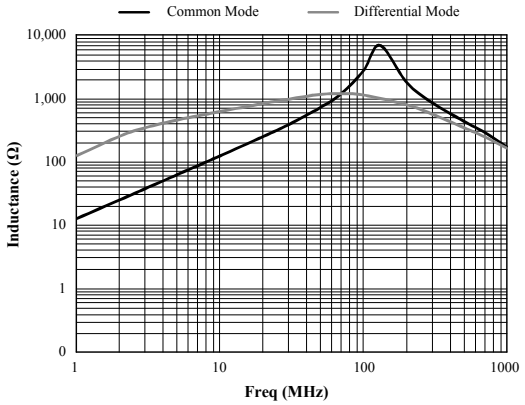
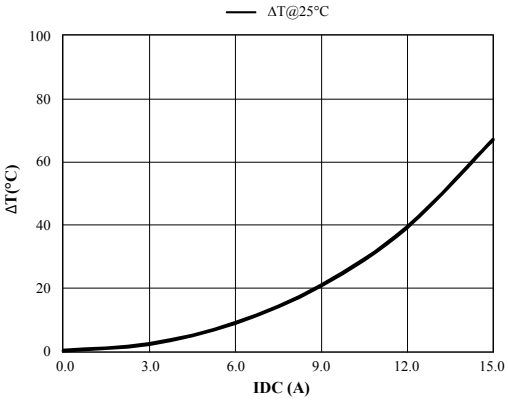
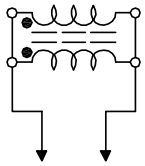
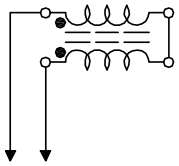




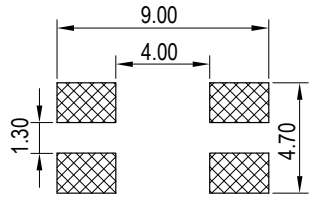
Common Mode
Measuring circuit :



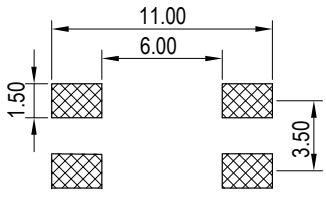
Differential Mode
Measuring circuit :



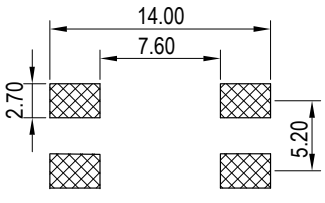
PCB Pattern



AQF7035



AQF9045



AQF1260

Type	Q'TY (pcs)	A (mm)	Unit Weight /pc	Q'TY (pcs)	Size (cm)
SWI0402CT-A1	10,000	178	0.8 mg	200,000	38.5 x 19.5 x 14.5
SWI0603CS-A1	3,000	178	3.7 mg	60,000	38.5 x 19.5 x 14.5
ACC3225	1,000	178	45 mg	50,000	39.5 x 39.5 x 23
ACC4532	500	178	110 mg	20,000	39.5 x 39.5 x 23
MHE0630_T	1,000	330	0.75 g	4,000	38 x 37 x 22
MHE0640_T	1,000	330	1.0 g	4,000	38 x 37 x 22
MHE1040_T	800	330	2.3 g	3,200	38 x 37 x22
MHE0630_Q	1,000	330	0.75 g	4,000	38 x 37 x22
MHE1040_Q	800	330	2.3 g	3,200	38 x 37 x22
MHS0735_S	1,000	330	0.9 g	6,000	38 x 37 x22
MHS1145_S	800	330	2.79 g	3,200	38 x 37 x22
MHS0735_E	1,000	330	0.9 g	6,000	38 x 37 x22
MHS1145_E	800	330	2.79 g	3,200	38 x 37 x22
MSN3030	700	178	0.1 g	28,000	42 x 41 x 24
MSN4030	600	178	0.2 g	24,000	42 x 41 x 24
MSN5030	600	178	0.31 g	24,000	42 x 41 x 24
MSN5040	1,000	330	0.31 g	8,000	38 x 37 x22
MSN6045	1,000	330	0.6 g	6,000	38 x 37 x22
TPI4018CT-A1	3,000	330	115 mg	60,000	38.5 x 37 x 42
TPI6045CT-A1	1,000	330	0.61 mg	16,000	38.5 x 37 x 42
MRN8040	1,200	330	0.9 g	7,200	38 x 37 x 22
AER0403	2,000	330	0.18 g	16,000	38 x 37 x 22
AER0604	1,000	330	0.35 g	6,000	38 x 37 x 22
AER0805	1,000	330	0.81 g	6,000	38 x 37 x 22
MER1006	800	330	1.16 g	3,200	38 x 37 x 22
ASR1011	250	330	3.2 g	1,000	38 x 37 x 22
ASB7030	1,500	330	0.44 g	9,000	38 x 37 x 22
ASB7045	1,000	330	0.6 g	6,000	38 x 37 x 22
ASB1305	600	330	2.35 g	2,400	38 x 37 x 22
ASB1806	250	330	4.0 g	1,000	38 x 37 x 22
ASB2207	250	330	4.4 g	1,000	38 x 37 x 22
AQS3818	1,000	178	0.11 g	40,000	42 x 41 x 24
AQS4818	800	178	0.19 g	32,000	42 x 41 x 24
AQS4828	500	178	0.27 g	20,000	42 x 41 x 24
AQS5818	500	178	0.25 g	15,000	42 x 41 x 24
AQS5828	400	178	0.47 g	12,000	42 x 41 x 24
AQS6822	500	178	0.4 g	15,000	42 x 41 x 24
MQS3228	600	178	0.12 g	24,000	42 x 41 x 24

Type	Q'TY (pcs)	A (mm)	Unit Weight /pc	Q'TY (pcs)	Size (cm)
MQS5228	400	178	0.3 g	12,000	42 x 41 x 24
MQS6828	1,500	330	0.505 g	9,000	38 x 37 x 22
MBS0703	1,500	330	0.63 g	9,000	38 x 37 x 22
MBS0704	1,000	330	0.88 g	6,000	38 x 37 x 22
ASU3028	2,000	330	1.25 g	16,000	38 x 37 x 22
ASU5028	600	178	0.27 g	24,000	42 x 41 x 24
ASU6025	600	178	0.3 g	24,000	42 x 41 x 24
ASU8028	1,500	330	0.61 g	9,000	38 x 37 x 22
ASU8030	400	178	0.62 g	12,000	42 x 41 x 24
ASU8040	1,200	330	0.82 g	7,200	38 x 37 x 22
ASU8045	1,000	330	1.0 g	6,000	38 x 37 x 22
ASU8058	800	330	1.2 g	4,800	38 x 37 x 22
ASU1028	1,000	330	0.9 g	4,000	38 x 37 x 22
ASU1030	1,200	330	0.9 g	4,800	38 x 37 x 22
ASU1038	800	330	1.26 g	3,200	38 x 37 x 22
ASU1040	800	330	1.32 g	3,200	38 x 37 x 22
ASU1048	600	330	1.63 g	2,400	38 x 37 x 22
ASU1050	700	330	1.66 g	2,800	38 x 37 x 22
ASU1065	500	330	2.35 g	2,000	38 x 37 x 22
ASS7032	1,500	330	0.45 g	9,000	38 x 37 x 22
ASS1005	600	330	1.26 g	2,400	38 x 37 x 22
ASS1210	250	330	4.5 g	1,000	38 x 37 x 22
ASS1240	800	330	2.35 g	3,200	38 x 37 x 22
ASS1260	600	330	3.65 g	2,400	38 x 37 x 22
ASS1280	400	330	4.6 g	1,600	38 x 37 x 22
ASS1806	250	330	3.3 g	1,000	38 x 37 x 22
ACU1048	700	330	1.85 g	2,800	38 x 37 x 22
MCU1227	450	330	4.32 g	1,800	38 x 37 x 22
MBF0703	1,500	330	0.6 g	9,000	38 x 37 x 22
ASF1258	400	330	2.95 g	1,600	38 x 37 x 22
ASF1278	400	330	4.1 g	1,600	38 x 37 x 22
MSF3225	1,200	178	70 mg	60,000	41 x 39 x 22
ASF4532-E	500	178	0.15 g	20,000	41 x 39 x 22
ASF4532-C	500	178	0.15 g	20,000	41 x 39 x 22
MSF9050	1,000	330	0.378 g	6,000	38 x 37 x 22
AQF7035	1,200	330	0.4 g	7,200	38 x 37 x 22
AQF9045	1,000	330	0.67 g	6,000	38 x 37 x 22
AQF1260	500	330	2.2 g	2,000	38 x 37 x 22

• All specifications are subject to change without notice.

Quality Policy

We insist on the spirit of "service, innovation and seeking for excellent".
Based on the commitment **"I am doing the excellent all the time"**
and participation of everybody.
We provide our customers products with Best Quality,
Quick Delivery and Best Price.
We are committed to quality, continuous R&D innovation, energy saving, carbon reduction, and green sustainability, and we have launched on "10 Billion in 10 Years Plan" to build a technology industry group with "Annual Revenue Growing to 10 Billion dollars in 10 years".

品 質 政 策

我們秉持“服務、創新、追求卓越”的精神，透過

“凡經我手最美、最好”

的全員參與，提供品質、交期與價格符合客戶要求的產品。
我們以品質優勢、持續研發創新，奉行節能減碳，綠色永續，
展開「十年百億計畫」，建立 [年營收十年內上百億元] 之科技工業集團。

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千 如 電 子 集 團
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