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# SMD INDUCTIVE COMPONENTS for AUTOMOTIVE



**ABC-ATEC Electronics Group**  
**ABC Taiwan Electronics Corp.**

# SMD inductive components for Automotive

Figure	Profile	Type	Dimension (LxWxH mm)	Inductance	Rated Current	AEC-Q200 Grade		
<b>Wire Wound Chip Inductor</b>								
	RF Ceramic	SWI0402CT-A1	1.0 x 0.6 x 0.5	1.0 ~ 120 nH	1.4 A ~ 110 mA	Grade 1		
		SWI0603CS-A1	1.7 x 1.2 x 0.9	1.6 ~ 390 nH	700 mA ~ 130 mA			
<b>Wound Chip Inductor</b>								
	High Current	ACC3225	3.2 x 2.5 x 2.2	0.1 ~ 100 µH	2.8 A ~ 150 mA	Grade 1		
		ACC4532	4.5 x 3.2 x 3.2	1.0 ~ 1,000 µH	2.3 A ~ 80 mA			
<b>Shielded SMD Power Inductor</b>								
	Molded - High current	MHE0630-T	7.1 x 6.6 x 3.0	0.33 ~ 33 µH	21 A ~ 2.5 A	Grade 0		
		MHE0640-T	7.1 x 6.6 x 4.0	1.0 ~ 68 µH	12 A ~ 1.5 A			
		MHE1040-T	12 x 10 x 4.0	2.2 ~ 100 µH	15 A ~ 2.0 A			
	Molded - High Saturation	MHE0630-Q	7.1 x 6.6 x 3.0	0.1 ~ 10 µH	34 A ~ 4.0 A	Grade 0		
		MHE1040-Q	12 x 10 x 4.0	0.7 ~ 47 µH	23 A ~ 3.5 A			
	Metal Cover Molded	MHS0735-S	7.2 x 7.2 x 3.5	0.33 ~ 33 µH	21 A ~ 2.5 A	Grade 0		
		MHS1145-S	12 x 10.7 x 4.5	2.2 ~ 100 µH	15 A ~ 2.0 A			
	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		
		MHS1145-E	12 x 10.7 x 4.5	1.0 ~ 68 µH	18 A ~ 3.0 A			
	Semi-shielded	MSN3030	3.0 x 3.0 x 3.0	1.0 ~ 100 µH	2.6 A ~ 250 mA	Grade 0		
		MSN4030	4.0 x 4.0 x 3.0	1.0 ~ 100 µH	5.5 A ~ 550 mA			
		MSN5030	5.0 x 5.0 x 3.0	0.47 ~ 100 µH	7.0 A ~ 450 mA			
		MSN5040	5.0 x 5.0 x 4.0	1.5 ~ 47 µH	5.2 A ~ 1.1 A			
		MSN6045	6.0 x 6.0 x 4.7	0.55 ~ 100 µH	7.0 A ~ 720 mA			
		TPI4018CT-A1	4.0 x 4.0 x 1.9	0.82 ~ 220 µH	4.0 A ~ 280 mA		Grade 1	
		TPI6045CT-A1	6.0 x 6.0 x 4.5	1.0 ~ 330 µH	6.5 A ~ 400 mA			
		MRN8040	8.2 x 7.9 x 4.2	0.5 ~ 100 µH	10 A ~ 1.0 A	Grade 0		
<b>SMD Power Inductor</b>								
	Non-Shielded	AER0403	Ø4.5 x 4.0 x 3.2	1.0 ~ 68 µH	2.7 A ~ 400 mA	Grade 1		
		AER0604	Ø5.8 x 5.2 x 4.5	1.2 ~ 220 µH	5.3 A ~ 470 mA			
		AER0805	Ø7.8 x 7.0 x 5.0	1.5 ~ 470 µH	5.8 A ~ 400 mA			
				MER1006	Ø10 x 9.0 x 5.4	1.8 ~ 820 µH	7.2 A ~ 450 mA	Grade 0
				ASR1011	Ø9.5 x Ø9.5 x 12	10 ~ 1,000 µH	3.5 A ~ 300 mA	Grade 1
				ASB7030	7.0 x 7.0 x 3.0	1.0 ~ 680 µH	3.0 A ~ 180 mA	
				ASB7045	7.0 x 7.0 x 4.5	1.2 ~ 1,000 µH	3.8 A ~ 200 mA	
				ASB1305	13 x 13 x 4.8	2.5 ~ 1,000 µH	7.2 A ~ 460 mA	
				ASB1806	14 x 18 x 6.6	1.0 ~ 1,000 µH	10 A ~ 500 mA	
ASB2207	22 x 15 x 7.0	0.8 ~ 100 µH	16 A ~ 2.0 A					
	Standard	AQS3818	3.8 x 3.8 x 1.8	1.0 ~ 220 µH	2.1 A ~ 160 mA	Grade 1		
		AQS4818	4.8 x 4.8 x 1.8	1.0 ~ 47 µH	3.6 A ~ 470 mA	Grade 0		
		AQS4828	4.8 x 4.8 x 2.8	1.2 ~ 220 µH	3.0 A ~ 240 mA	Grade 1		
		AQS5818	5.8 x 5.8 x 1.8	1.5 ~ 220 µH	3.0 A ~ 240 mA			
		AQS5828	5.8 x 5.8 x 2.8	2.6 ~ 1,000 µH	3.2 A ~ 130 mA			
		AQS6822	6.8 x 6.8 x 2.3	1.0 ~ 1,000 µH	4.2 A ~ 130 mA			

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Figure	Profile	Type	Dimension (LxWxH mm)	Inductance	Rated Current	AEC-Q200 Grade
<b>Shielded SMD Power Inductor</b>						
		MQS3228	3.3 x 3.3 x 2.8	10 ~ 100 $\mu$ H	800 mA ~ 240 mA	Grade 1
		MQS5228	5.2 x 5.2 x 2.8	1.2 ~ 1,000 $\mu$ H	3.9 A ~ 150 mA	
		MQS6828	6.8 x 6.8 x 2.8	2.5 ~ 1,000 $\mu$ H	3.4 A ~ 170 mA	
		MBS0703	7.3 x 7.3 x 3.5	10 ~ 1,000 $\mu$ H	1.9 A ~ 170 mA	Grade 0
		MBS0704	7.3 x 7.3 x 4.5	10 ~ 1,000 $\mu$ H	2.1 A ~ 200 mA	
	Standard	ASU3028	3.3 x 3.5 x 2.8	10 ~ 47 $\mu$ H	720 mA ~ 320 mA	Grade 1
		ASU5028	5.2 x 5.2 x 2.8	1.2 ~ 100 $\mu$ H	3.4 A ~ 420 mA	
		ASU6025	6.2 x 6.5 x 2.5	1.2 ~ 220 $\mu$ H	3.2 A ~ 240 mA	
		ASU8028	8.0 x 8.0 x 2.8	2.5 ~ 100 $\mu$ H	4.2 A ~ 700 mA	
		ASU8030	8.0 x 8.0 x 2.8	3.3 ~ 100 $\mu$ H	4.6 A ~ 750 mA	
		ASU8040	8.0 x 8.0 x 3.8	3.3 ~ 150 $\mu$ H	5.0 A ~ 770 mA	
		ASU8045	8.0 x 8.0 x 4.5	3.5 ~ 100 $\mu$ H	5.0 A ~ 920 mA	
		ASU8058	8.0 x 8.0 x 5.8	3.9 ~ 100 $\mu$ H	4.5 A ~ 900 mA	
		ASU1028	10 x 10 x 2.8	1.0 ~ 150 $\mu$ H	7.0 A ~ 650 mA	
		ASU1030	10 x 10 x 2.8	3.5 ~ 150 $\mu$ H	5.0 A ~ 840 mA	
		ASU1038	10 x 10 x 3.8	1.5 ~ 330 $\mu$ H	7.0 A ~ 520 mA	
		ASU1040	10 x 10 x 3.8	3.8 ~ 330 $\mu$ H	5.8 A ~ 600 mA	
		ASU1048	10 x 10 x 4.8	1.5 ~ 330 $\mu$ H	7.0 A ~ 520 mA	
		ASU1050	10 x 10 x 4.8	4.7 ~ 1,000 $\mu$ H	5.1 A ~ 400 mA	
		ASU1065	10 x 10 x 6.6	2.8 ~ 100 $\mu$ H	6.5 A ~ 1.4 A	
			High Inductance	ASS7032	7.0 x 7.0 x 3.2	
ASS1005	10 x 13 x 4.9			1.0 ~ 3,300 $\mu$ H	4.5 A ~ 100 mA	
ASS1210	12 x 12 x 10			1.0 ~ 1,000 $\mu$ H	11 A ~ 700 mA	
ASS1240	13 x 13 x 4.0			10 ~ 1,000 $\mu$ H	4.0 A ~ 400 mA	
ASS1260	13 x 13 x 6.0			1.0 ~ 1,000 $\mu$ H	9.4 A ~ 600 mA	
MSS1280	13 x 13 x 7.5			2.4 ~ 1,200 $\mu$ H	9.2 A ~ 550 mA	
ASS1806	14 x 18 x 6.8			10 ~ 1,000 $\mu$ H	4.0 A ~ 450 mA	
	High Performance	ACU1048	10.0 x 10.2 x 4.8	0.68 ~ 470 $\mu$ H	9.5 A ~ 600 mA	Grade 0
		MCU1227	12.5 x 12.8 x 7.7	22 ~ 470 $\mu$ H	5.5 A ~ 1.1 mA	
	Coupled	MBF0703	7.6 x 7.6 x 3.4	8.2 ~ 1,000 $\mu$ H	2.19 A ~ 260 mA	Grade 0
		MSF1258	12.5 x 12.5 x 6.0	0.47 ~ 1,000 $\mu$ H	14.6 A ~ 570 mA	Grade 1
		MSF1278	12.5 x 12.5 x 8.0	0.47 ~ 1,000 $\mu$ H	14.6 A ~ 610 mA	
<b>SMD Line Filter</b>						
	Data Line	MSF3225	3.2 x 2.5 x 2.5	100 ~ 100 $\mu$ H	100 mA ~ 100 mA	Grade 1
		ASF4532-E	4.5 x 3.2 x 3.0	200 ~ 200 $\mu$ H	110 mA ~ 110 mA	
		ASF4532-C	4.5 x 3.2 x 3.0	11 ~ 100 $\mu$ H	360 mA ~ 200 mA	Grade 0
		MSF9050	9.2 x 6.0 x 5.0	10 ~ 6,500 $\mu$ H	1.6 A ~ 300 mA	Grade 2
	Power Line	AQF7035	7.0 x 6.0 x 3.5	225 ~ 1,800 $\Omega$	5.0 A ~ 1.2 A	Grade 1
		AQF9045	9.0 x 7.0 x 4.5	500 ~ 500 $\Omega$	5.0 A ~ 5.0 A	
		AQF1260	12 x 11 x 6.0	500 ~ 750 $\Omega$	8.0 A ~ 6.0 A	



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