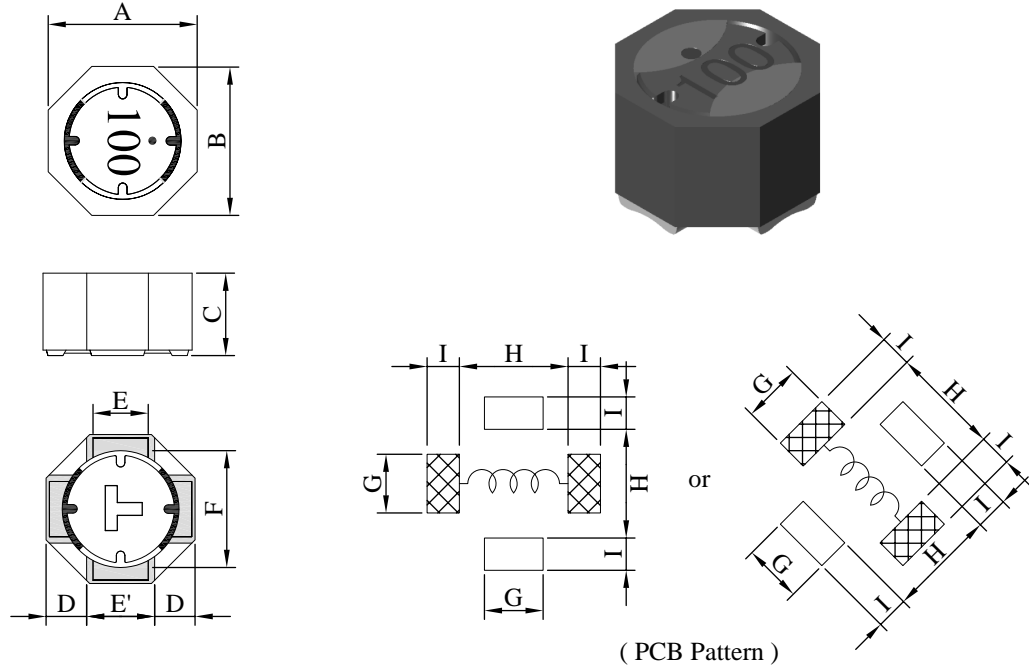


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SU1065□□□□F□-□□□		
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I . Configuration and dimensions :



(PCB Pattern)

Unit : mm

A	B	C	D	E	E'	F	G	H	I
10.00 ±0.3	10.00 ±0.3	6.60 ±0.3	2.75 typ.	4.00 typ.	4.50 ±0.5	8.20 typ.	4.20 ref.	8.20 ref.	1.40 ref.

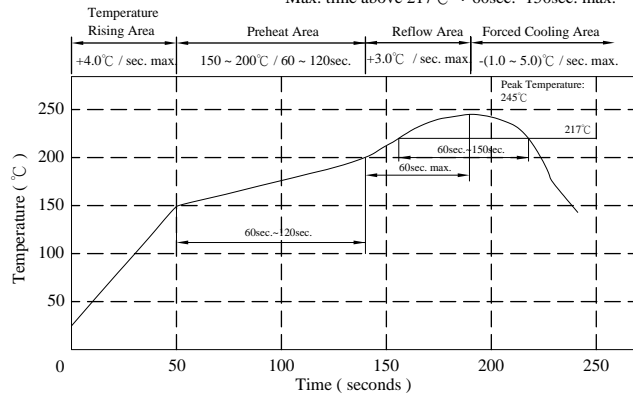
II . Description :

- a . Ferrite drum core construction
- b . Magnetically shielded
- c . Enamelled copper wire : F、H class
- d . Product weight : 2.350g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free

III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
(Temp. rise included.)
- c . Resistance to solder heat : 260°C.10 sec.

Peak temp. : 245°C max.
Max. peak temp. - 5°C : 30sec. max.
Max. time above 217°C : 60sec.~150sec. max.



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SPECIFICATION FOR APPROVAL

REF. :

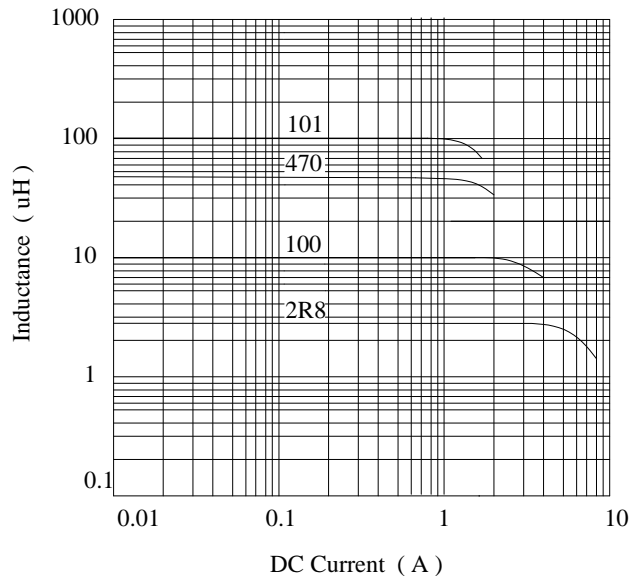
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SU1065□□□□F□-□□□		
		REV.	20200917-G	PAGE	2

IV . Electrical characteristics :

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC (m Ω)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
SU10652R8YF□-□□□	2.8 \pm 30%	15	60	15.0	19.0	6.50	7.50
SU10654R2YF□-□□□	4.2 \pm 30%	14	45	18.0	23.0	5.60	7.00
SU10656R5YF□-□□□	6.5 \pm 30%	13	28	28.0	35.0	5.00	5.30
SU1065100YF□-□□□	10.0 \pm 30%	14	20	33.0	41.0	4.90	4.00
SU1065220YF□-□□□	22.0 \pm 30%	16	12	58.0	73.0	3.80	2.80
SU1065330YF□-□□□	33.0 \pm 30%	10	7	93.0	120.0	2.70	2.40
SU1065470YF□-□□□	47.0 \pm 30%	10	6	165.0	210.0	2.10	2.10
SU1065680YF□-□□□	68.0 \pm 30%	8	5	195.0	250.0	1.85	1.75
SU1065101YF□-□□□	100.0 \pm 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 $\Delta L / L0A=35\%$ typ.
- 5). Irms base on Temp. rise 40°C typ.

@ Inductance VS. DC Superposition Characteristics



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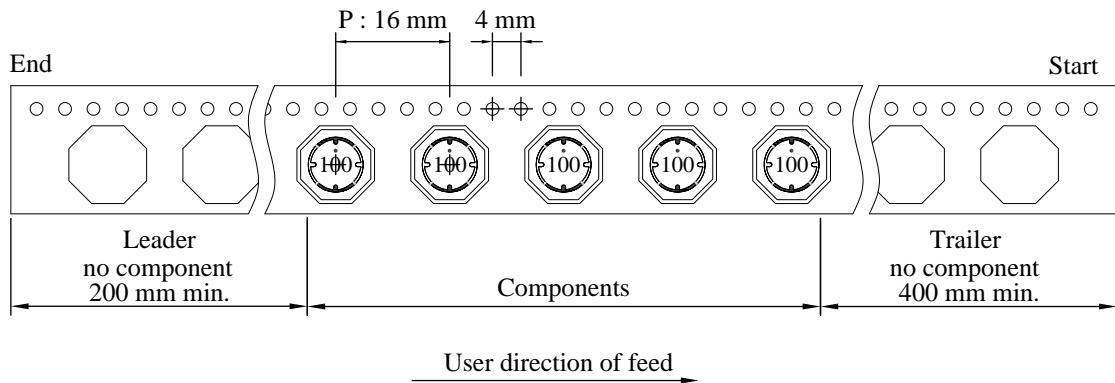
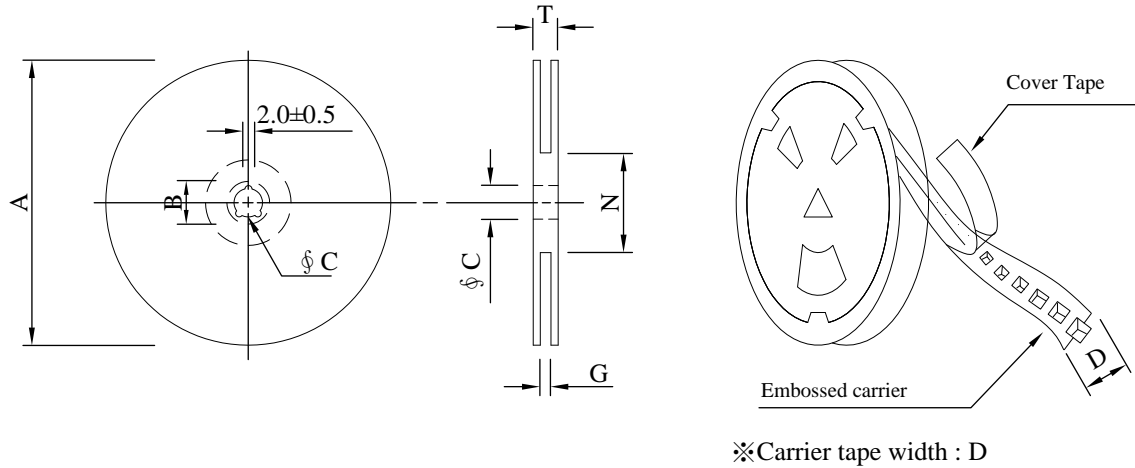
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SU1065□□□□F□-□□□		
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V . Packaging information :

(1) Configuration



(2) Dimensions

Unit:mm

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	60 ⁻⁰	30.4

(3) Q'TY & G.W. Per package

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (kg)	Size (cm)
B	500	1600	13 - 24	2,000	7.7	38 x 37 x 22

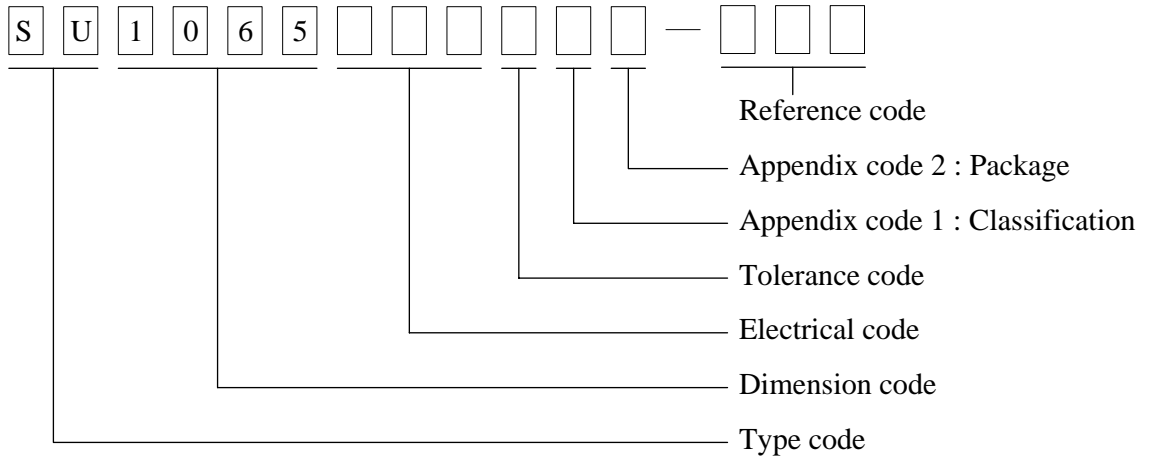
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VI . Drawing number expression :



Appendix code 1 : Product Classification

Appendix code 2 : Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
B	T /R (Reel package)	UCT	Antistatic	Antistatic	500 pcs	

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PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SU1065□□□□F□-□□□		
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VII . Reliability test :					
Item	Reference documents	Test Condition		Test Specification	
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycles 3.Dwell time:30 minutes		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.		1.No pollution on the surface of products. 2.Clear marking. 3.No crack.	
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.		Per product specification standard	
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.		1.No body change in appearance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.	
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 245±5℃ 2.Time (temp. ≥ 217℃) : 60~150 Seconds. 3.IR reflow times : 3 times.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 seconds. 2.Saturation current		Inductance shall not drop more than 35% typ.	
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current		No electrical or mechanical damage	
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current		Surface temperature rise is less than 40℃ typ.	
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 seconds. 4.IR reflow times : 1 time.		More than 95% soldering coverage min on terminations.	
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.	
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 times (Every side of sample drop 2 times)		1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.	
16.Terminal Strength Test	IEC 60068-2-21	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.		After test, inductors shall be no mechanical damage.	

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