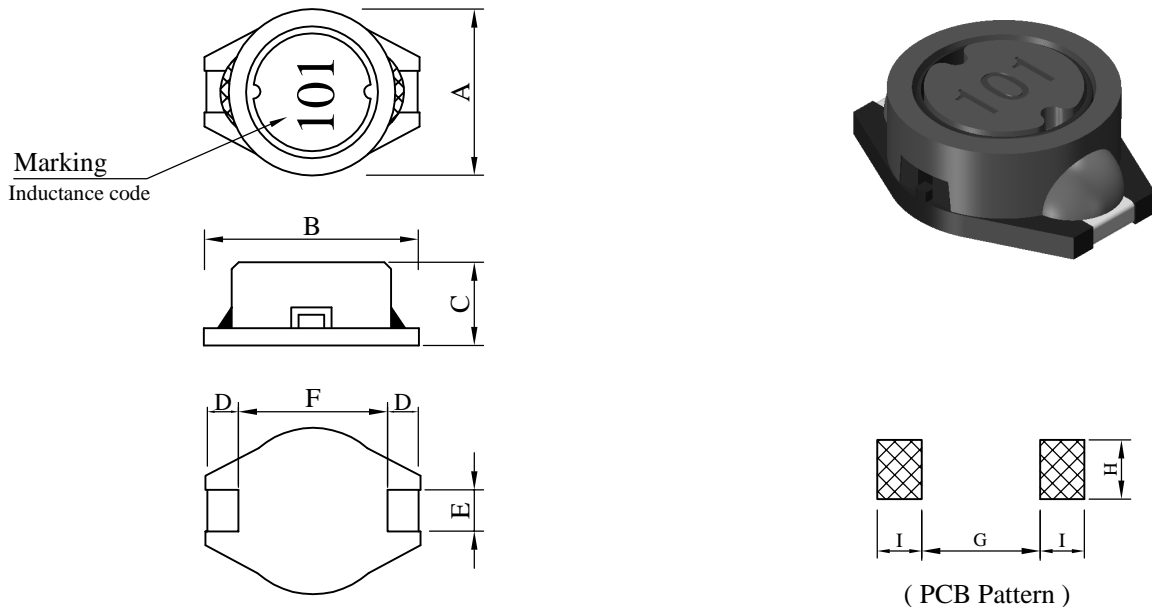


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0804□□□□F□-□□□		
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I . Configuration and dimensions :



Unit : m/m

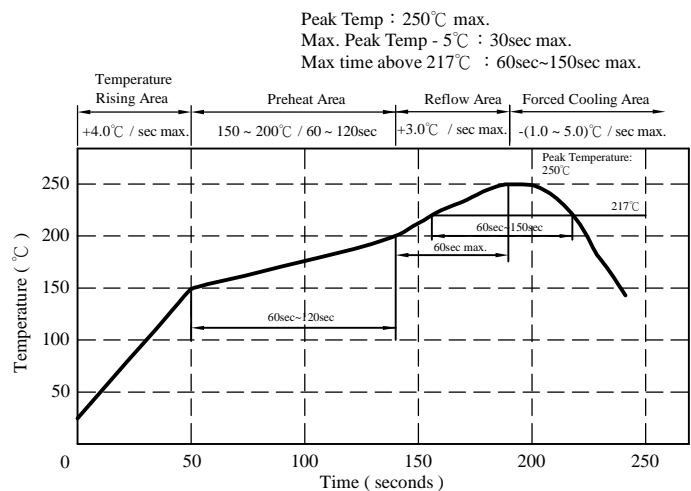
A	B	C	D	E	F	G	H	I
8.00 ±0.30	10.50 ±0.30	3.70 ±0.30	2.10 ±0.20	2.00 ±0.20	6.00 ±0.30	5.70 ref.	2.20 ref.	2.40 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 0.60g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

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 : 250°C .10 secs.



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SPECIFICATION FOR APPROVAL

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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SS08045R0MF□-□□□	5.0 \pm 20%	20	1k	7.960M	45.0	0.080	1.70
SS08047R5MF□-□□□	7.5 \pm 20%	20	1k	7.960M	40.0	0.100	1.40
SS0804100MF□-□□□	10.0 \pm 20%	38	1k	2.520M	32.0	0.120	1.20
SS0804120MF□-□□□	12.0 \pm 20%	38	1k	2.520M	28.0	0.150	1.10
SS0804150MF□-□□□	15.0 \pm 20%	38	1k	2.520M	25.0	0.170	1.00
SS0804180YF□-□□□	18.0 \pm 15%	35	1k	2.520M	23.0	0.190	0.90
SS0804220YF□-□□□	22.0 \pm 15%	30	1k	2.520M	22.0	0.250	0.80
SS0804270YF□-□□□	27.0 \pm 15%	28	1k	2.520M	18.0	0.270	0.70
SS0804330YF□-□□□	33.0 \pm 15%	26	1k	2.520M	17.0	0.300	0.65
SS0804390YF□-□□□	39.0 \pm 15%	26	1k	2.520M	16.0	0.380	0.60
SS0804470KF□-□□□	47.0 \pm 10%	24	1k	2.520M	14.0	0.460	0.55
SS0804560KF□-□□□	56.0 \pm 10%	24	1k	2.520M	12.0	0.600	0.50
SS0804680KF□-□□□	68.0 \pm 10%	22	1k	2.520M	11.0	0.700	0.45
SS0804820KF□-□□□	82.0 \pm 10%	20	1k	2.520M	10.0	0.800	0.40
SS0804101KF□-□□□	100.0 \pm 10%	50	1k	796k	9.0	0.950	0.37
SS0804121KF□-□□□	120.0 \pm 10%	50	1k	796k	8.5	1.000	0.35
SS0804151KF□-□□□	150.0 \pm 10%	53	1k	796k	7.0	1.300	0.30
SS0804181KF□-□□□	180.0 \pm 10%	53	1k	796k	6.0	1.450	0.28
SS0804221KF□-□□□	220.0 \pm 10%	55	1k	796k	5.5	1.900	0.24
SS0804271KF□-□□□	270.0 \pm 10%	50	1k	796k	5.5	2.150	0.22
SS0804331KF□-□□□	330.0 \pm 10%	60	1k	796k	5.0	2.800	0.19
SS0804391KF□-□□□	390.0 \pm 10%	55	1k	796k	4.5	3.300	0.17
SS0804471KF□-□□□	470.0 \pm 10%	50	1k	796k	4.0	3.600	0.16

- 1). □: Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.

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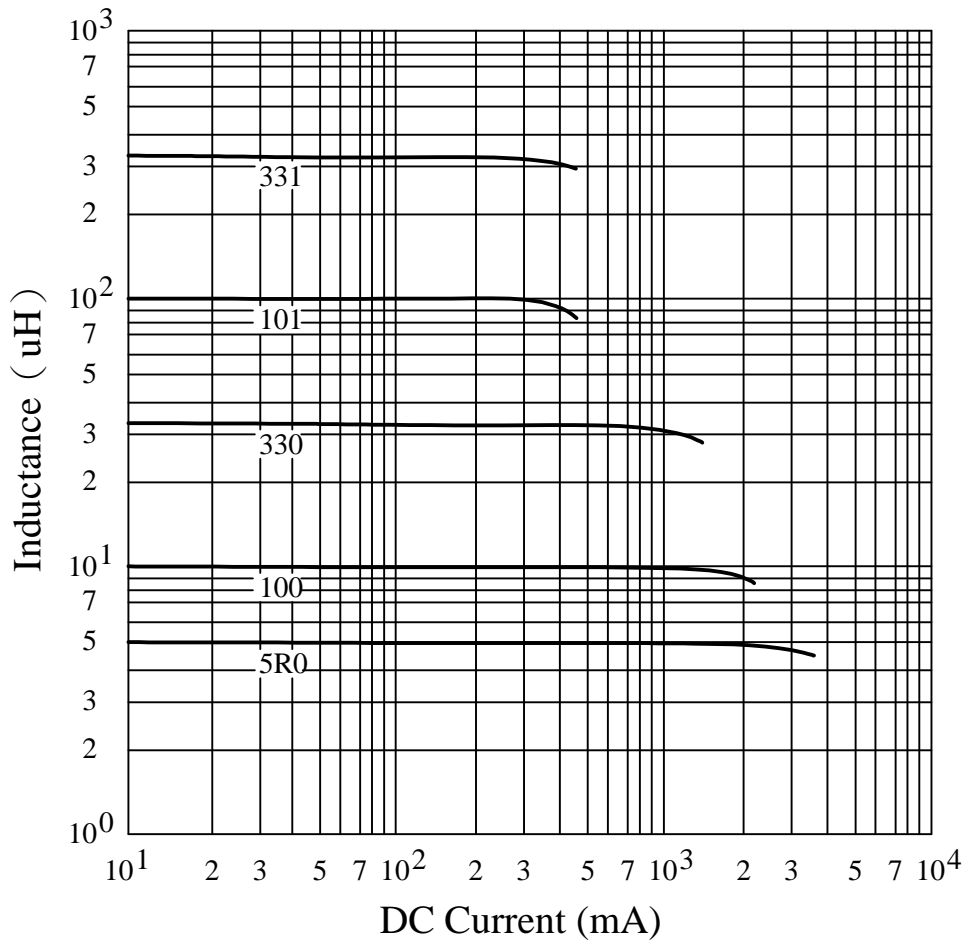


SPECIFICATION FOR APPROVAL

REF. :

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V . Curve :



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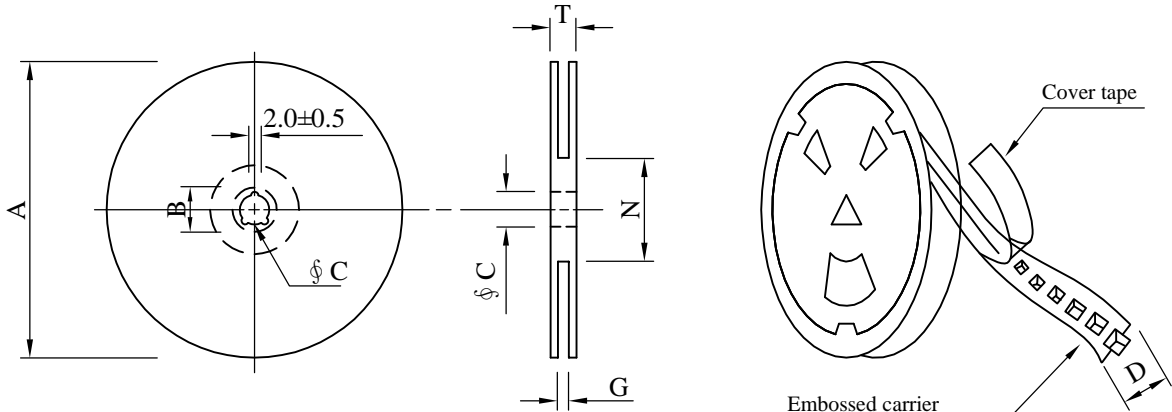
SPECIFICATION FOR APPROVAL

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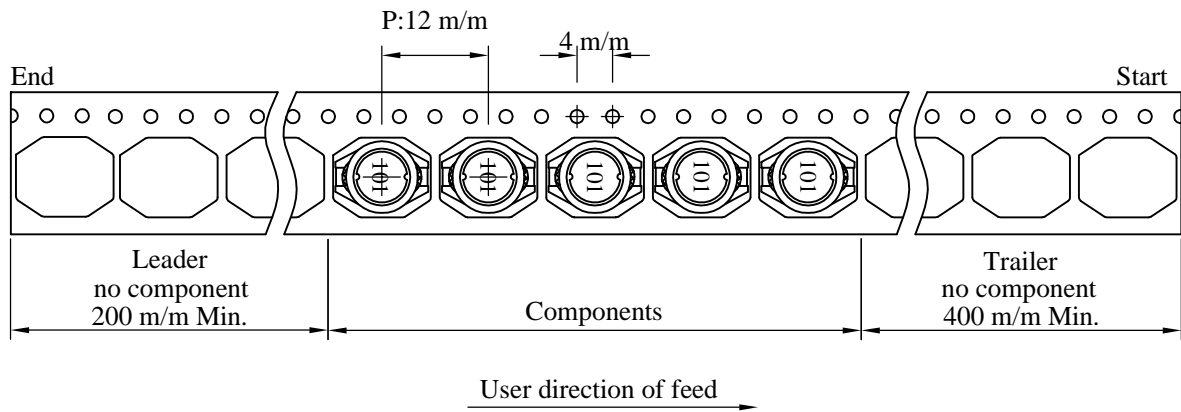
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0804□□□□F□-□□□		
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(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	1,000	1030	13 - 16	6,000	7.5	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0804□□□□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 cycle 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 apperarence. 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 : 250±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Second. 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 second. 2.Saturation current	Inductance shall not drop more than 10% max.
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℃ max.
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 second. 4.IR reflow times : 1 times.	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 time (Every side of sample drop 2 time)	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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