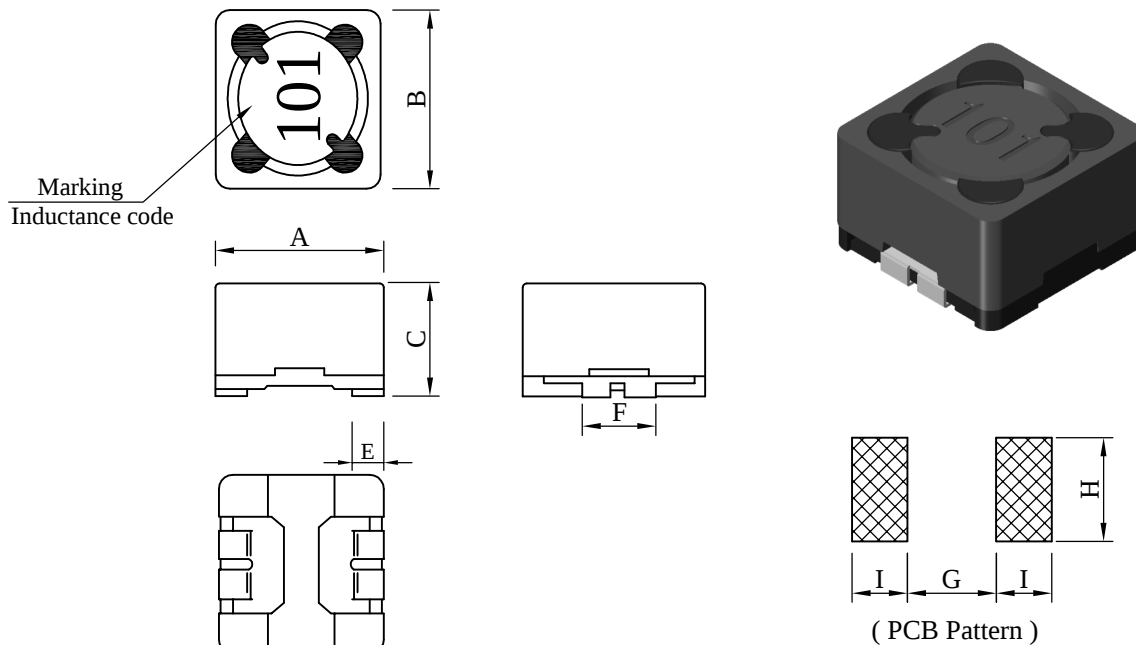


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SS1208□□□□F□-□□□		
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I . Configuration and dimensions :



Unit : m/m

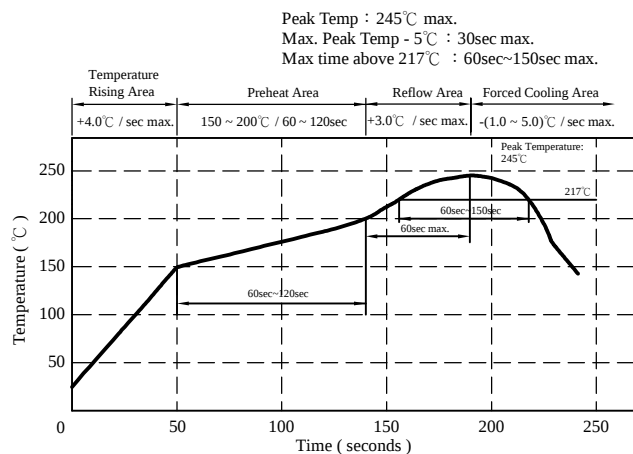
A	B	C	E	F	G	H	I
12.70 ±0.3	12.70 ±0.3	8.00 ±0.5	2.30 ±0.2	5.00 ±0.2	6.00 ref.	7.00 ref.	4.00 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 4.25 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

III . General specification :

- a . Storage temp. : -40℃ ----+125℃
- b . Operating temp. : -40℃ ----+125℃
(Temp. rise included)
- c . Resistance to solder heat : 245℃ .10 secs.



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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1208□□□□F□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Test Freq. (Hz)	SRF (MHz) min.	RDC ($m\Omega$) max.	IDC (A) max.
SS12082R5MF□-□□□	2.5±20%	1K	37.0	11.4	7.80
SS12084R5MF□-□□□	4.5±20%	1K	30.0	14.0	6.80
SS12086R5MF□-□□□	6.5±20%	1K	20.0	18.0	6.50
SS1208100MF□-□□□	10.0±20%	1K	15.0	21.0	5.40
SS1208120MF□-□□□	12.0±20%	1K	11.0	25.0	4.90
SS1208150MF□-□□□	15.0±20%	1K	11.0	36.0	4.50
SS1208180MF□-□□□	18.0±20%	1K	9.00	40.0	3.90
SS1208220MF□-□□□	22.0±20%	1K	7.00	43.0	3.60
SS1208270MF□-□□□	27.0±20%	1K	6.50	48.0	3.40
SS1208330YF□-□□□	33.0±15%	1K	6.50	62.0	3.00
SS1208390YF□-□□□	39.0±15%	1K	6.00	76.0	2.70
SS1208470YF□-□□□	47.0±15%	1K	5.00	85.0	2.50
SS1208560YF□-□□□	56.0±15%	1K	5.00	110.0	2.30
SS1208680YF□-□□□	68.0±15%	1K	5.00	135.0	2.10
SS1208820YF□-□□□	82.0±15%	1K	4.00	150.0	1.90
SS1208101YF□-□□□	100.0±15%	1K	4.00	170.0	1.70
SS1208121YF□-□□□	120.0±15%	1K	3.00	190.0	1.50
SS1208151YF□-□□□	150.0±15%	1K	3.00	240.0	1.40
SS1208181YF□-□□□	180.0±15%	1K	2.50	270.0	1.30
SS1208221KF□-□□□	220.0±10%	1K	2.50	380.0	1.10
SS1208271KF□-□□□	270.0±10%	1K	2.00	400.0	1.00
SS1208331KF□-□□□	330.0±10%	1K	1.80	650.0	0.90
SS1208391KF□-□□□	390.0±10%	1K	1.60	670.0	0.85
SS1208471KF□-□□□	470.0±10%	1K	1.40	850.0	0.80
SS1208561KF□-□□□	560.0±10%	1K	1.40	900.0	0.70
SS1208681KF□-□□□	680.0±10%	1K	1.20	1000.0	0.65
SS1208821KF□-□□□	820.0±10%	1K	1.20	1150.0	0.60
SS1208102KF□-□□□	1000.0±10%	1K	1.00	1650.0	0.55
SS1208122KF□-□□□	1200.0±10%	1K	0.80	2000.0	0.40
SS1208152KF□-□□□	1500.0±10%	1K	0.80	2350.0	0.36

1). □ : Packaging information : □ Code

2). "-□□□" : Reference code

3). Electrical specifications at 25°C

4). IDC base on Temp. rise 40°C max.

& $\Delta L/L0A=10\%$ max.

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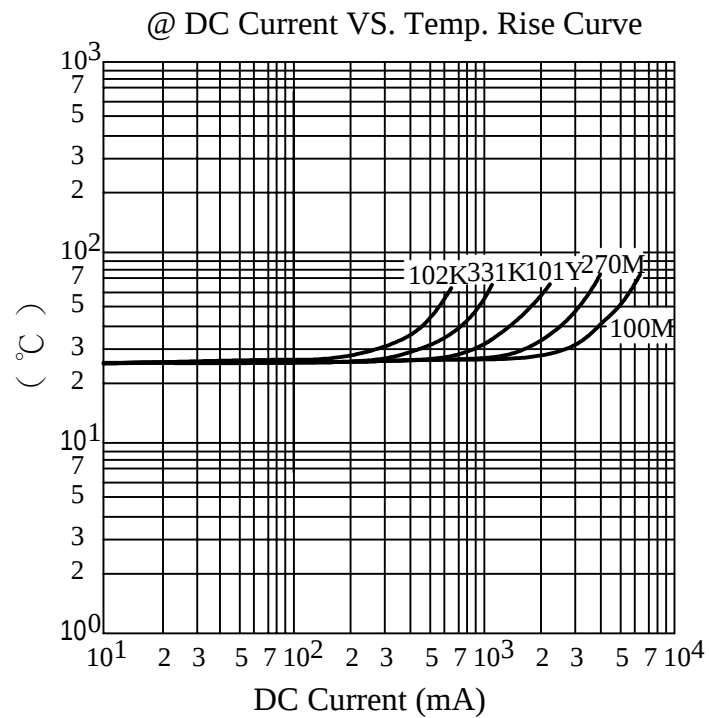
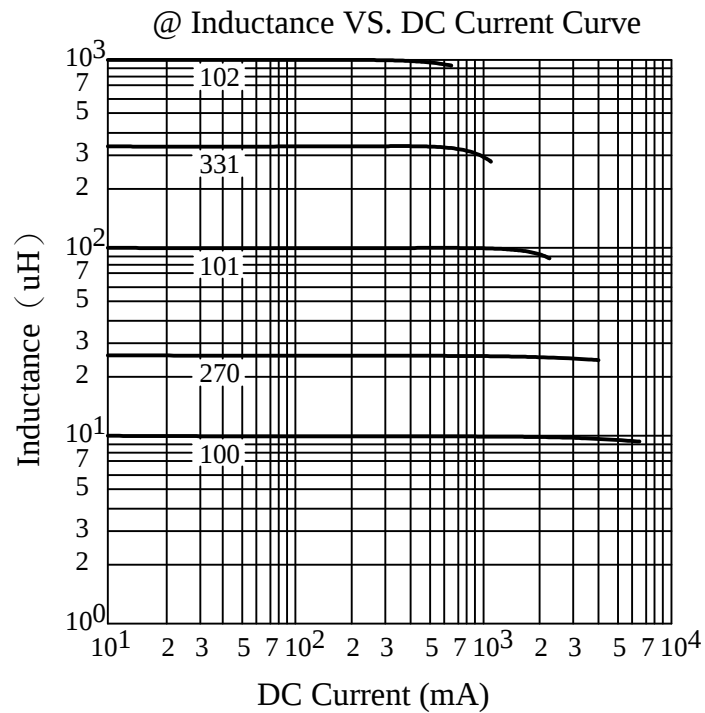


SPECIFICATION FOR APPROVAL

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V . Curve :



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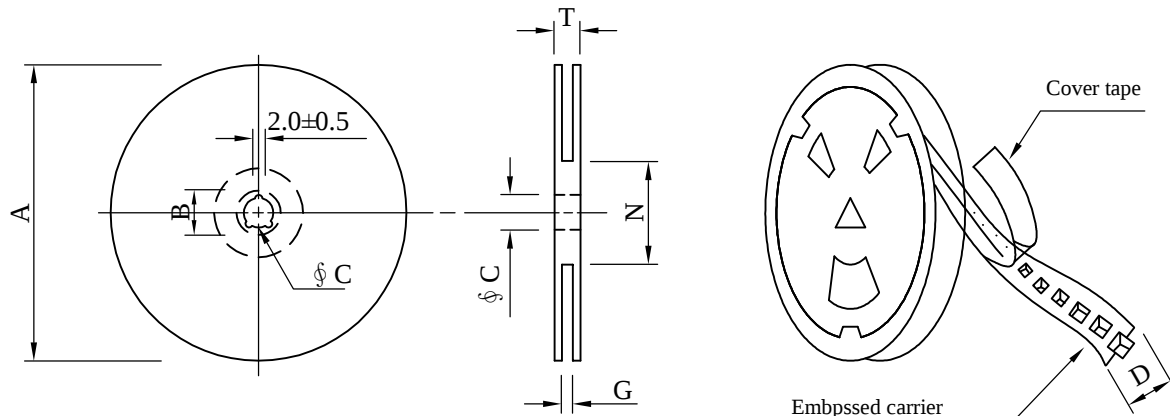
SPECIFICATION FOR APPROVAL

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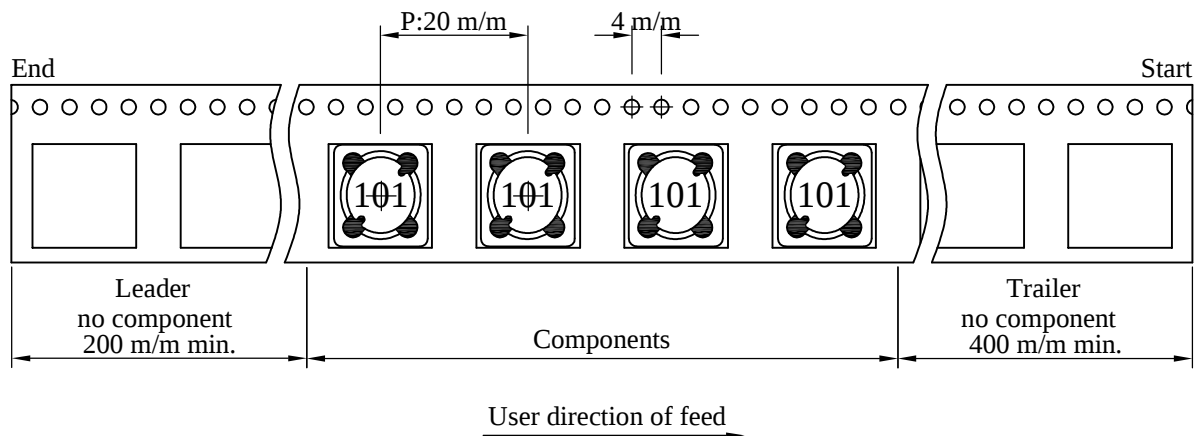
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SS1208□□□□F□-□□□		
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 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 、 C 、 D	400	2100	13 - 24	1,600	10.6	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD.	Shielded SMD Power Inductor	ABC'S DWG NO.		SS1208□□□□F□-□□□		
NAME		REV.	20141222-B	PAGE	5	
VII . Reliability test :						
Item	Reference documents	Test Condition		Test Specification		
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125℃ 2.Time:96 hours.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40℃ ~ 125℃ 2.Number of cycle:96 cycle 3.Dwell time:30 minutes		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature: 85±5 ℃ 2.Time:96 Hours 3.Humidity: 85±5% RH.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
4.Operational Life	MIL-PRF-27	1.Temperature: 125℃ 2.Time:96 hours. 3.Apply rated current.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
5.Exeternal Visual	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 Method JB-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 apperance. 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 and electrical damage. 2.Inductance shall not change more than ±20%.		
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Highest temperature : 245±5℃ 2.Time (temp. ≥ 217℃) : 60~150 Second. 3.IR reflow times : 3 times.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
12.Over load	MIL-PRF-27	Apply double as rated current for 5 minutes. (It's not application to some special design)		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
13.Solderability Test	J-STD-002	1.Baking in pre-testing : 155±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 times.		The terminal shall be at least 95% covered with fresh solder.		
14.Electrical Characteriazation	User Spec.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.		
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DC:500V 2.Time:1minutes		1.During the test no breakdown. 2.The characteristic is normal after test.		
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.		1.No case deformation or change in appearance. 2.Inductance shall not change more than ±20%.		
17.Terminal Strength Test	JIS-C-6429	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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