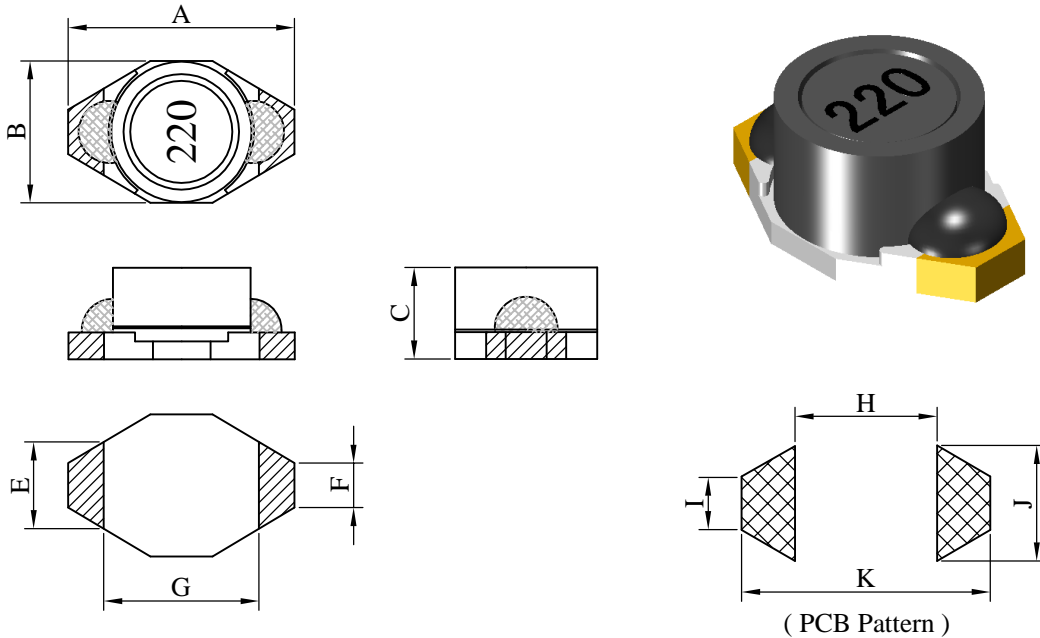


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1608□□□□L□-□□□		
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I . Configuration and dimensions :



Unit : m/m

A	B	C	E	F	G	H	I	J	K
6.50 ±0.20	4.40 max.	2.90 ±0.15	2.50 ref.	1.24 ref.	4.45 ref.	4.10 ref.	1.60 ref.	3.00 ref.	7.00 ref.

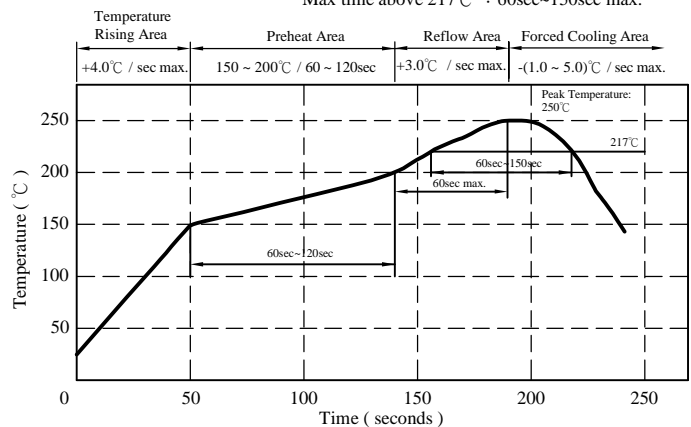
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 0.14 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

Peak Temp : 250°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.

III . General specification :

- a . Storage temp. : -55°C ----+125°C
- b . Operating temp. : -55°C ----+125°C
(Temp. rise included)
- c . Resistance to solder heat : 250°C.10 secs.



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SPECIFICATION FOR APPROVAL

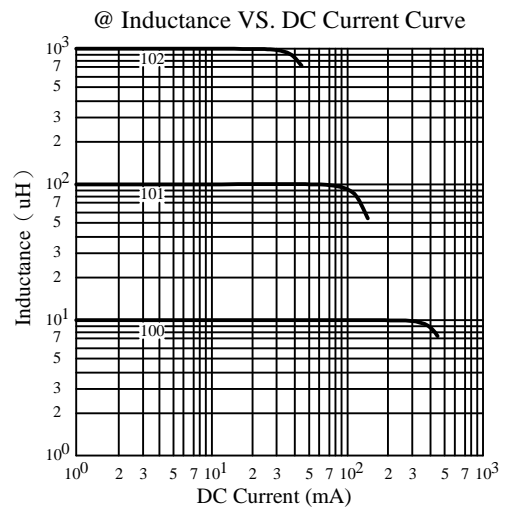
REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1608□□□□L□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μH)	Q min.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
			L/0.1V	Q				
SS16081R0ML□-□□□	1.0±20%	10	100k	500k	250.00	0.040	3.000	1.200
SS16081R5ML□-□□□	1.5±20%	20	100k	500k	125.00	0.045	2.800	0.920
SS16082R2ML□-□□□	2.2±20%	25	100k	500k	120.00	0.050	1.800	0.800
SS16083R3ML□-□□□	3.3±20%	40	100k	200k	120.00	0.055	1.600	0.620
SS16084R7ML□-□□□	4.7±20%	40	100k	200k	105.00	0.060	1.400	0.500
SS16086R8ML□-□□□	6.8±20%	40	100k	200k	50.00	0.065	1.200	0.400
SS1608100ML□-□□□	10.0±20%	40	100k	200k	38.00	0.075	1.000	0.320
SS1608150ML□-□□□	15.0±20%	40	100k	100k	33.00	0.090	0.800	0.260
SS1608220ML□-□□□	22.0±20%	40	100k	100k	25.00	0.110	0.700	0.240
SS1608330ML□-□□□	33.0±20%	40	100k	100k	20.00	0.190	0.600	0.160
SS1608470ML□-□□□	47.0±20%	40	100k	100k	20.00	0.230	0.500	0.140
SS1608680ML□-□□□	68.0±20%	40	100k	100k	15.00	0.290	0.400	0.120
SS1608101ML□-□□□	100.0±20%	40	100k	100k	10.00	0.480	0.300	0.100
SS1608151ML□-□□□	150.0±20%	40	100k	100k	9.00	0.590	0.260	0.080
SS1608221ML□-□□□	220.0±20%	40	100k	100k	6.00	0.770	0.220	0.070
SS1608331ML□-□□□	330.0±20%	40	100k	100k	5.00	1.400	0.200	0.050
SS1608471ML□-□□□	470.0±20%	40	100k	100k	4.00	1.800	0.190	0.045
SS1608681ML□-□□□	680.0±20%	40	100k	100k	3.00	2.200	0.180	0.040
SS1608102ML□-□□□	1000.0±20%	40	100k	100k	2.00	3.400	0.150	0.028
SS1608152ML□-□□□	1500.0±20%	50	100k	100k	2.00	4.200	0.120	0.024
SS1608222ML□-□□□	2200.0±20%	50	100k	100k	2.00	8.500	0.100	0.020
SS1608332ML□-□□□	3300.0±20%	50	100k	100k	1.00	11.000	0.080	0.018
SS1608472ML□-□□□	4700.0±20%	50	100k	100k	1.00	13.900	0.060	0.014
SS1608682ML□-□□□	6800.0±20%	50	100k	100k	1.00	25.000	0.040	0.012
SS1608103ML□-□□□	10000.0±20%	50	100k	100k	0.80	32.800	0.020	0.010

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). I_{rms} base on Temp. rise 30°C max.
- 5). I_{sat} base on ΔL/L0A=10% typ.



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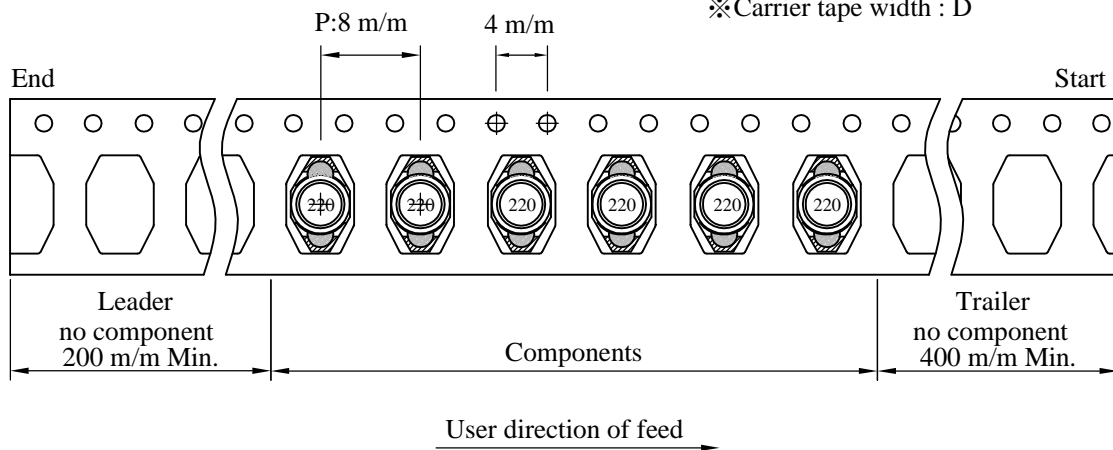
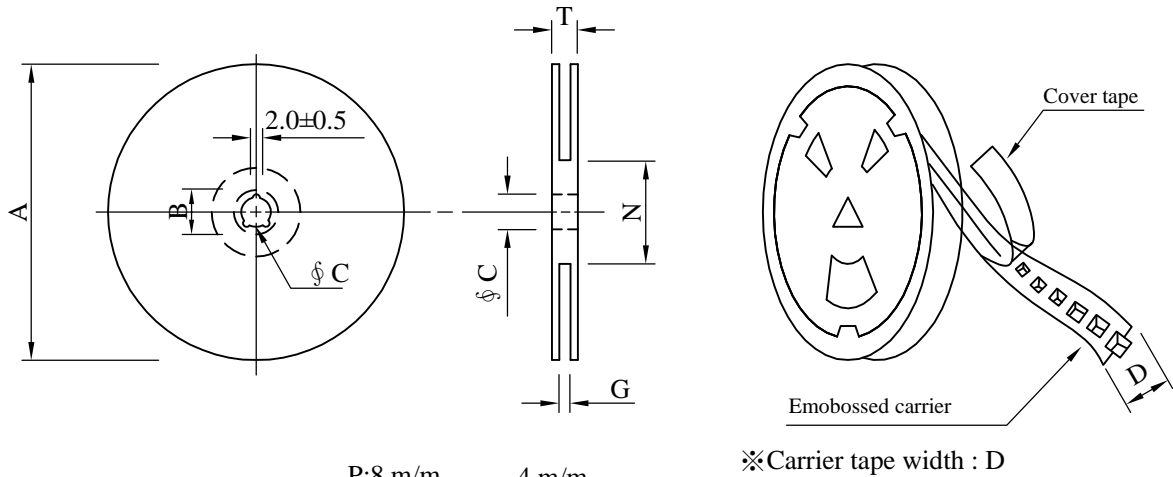
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1608□□□□L□-□□□		
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V . Packaging information :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07-12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
13-12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

(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 · D	600	200	07-12	24,000	9.2	42 x 41 x 24
C	2,500	740	13-12	20,000	7.2	38 x 37 x 22
E	2,000	670	13-12	16,000	6.6	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1608□□□□L□-□□□		
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VI . 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: -55℃ ~ +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 apperance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 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% 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 30℃ 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 : -55℃~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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