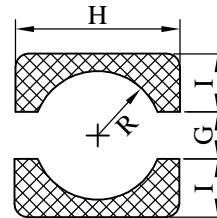
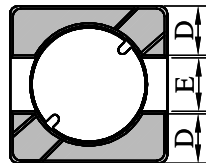
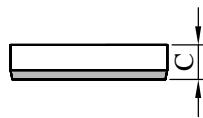
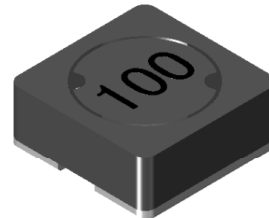
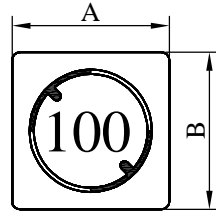


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SH6028□□□□L□-□□□		
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

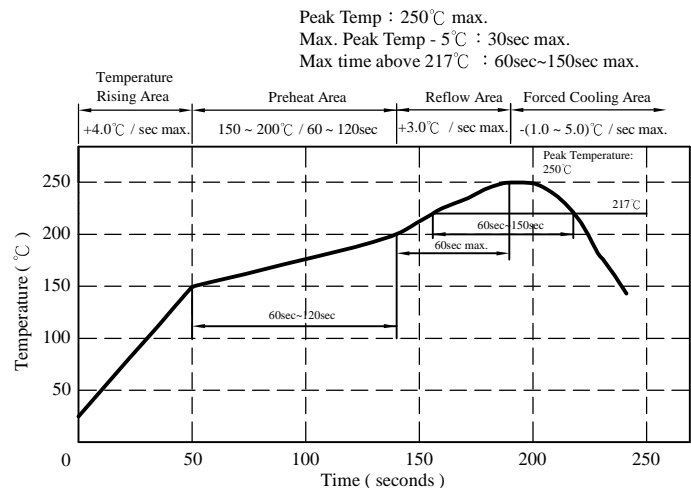
A	B	C	D	E	G	H	I	R
6.80±0.2	6.80±0.2	2.80±0.2	2.30 typ.	2.20 typ.	2.10 ref.	7.30 ref.	2.60 ref.	2.70 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : H class
- d . Product weight : 0.51g (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

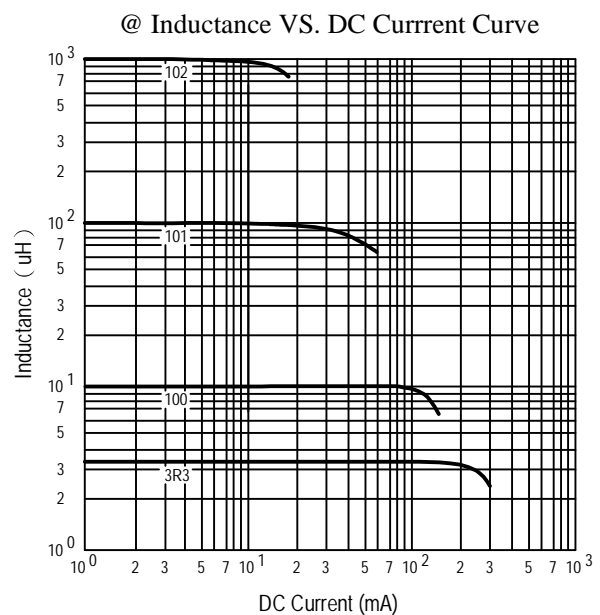
REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SH6028□□□□L□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μH)	SRF (MHz) typ.	RDC ($\text{m}\Omega$)		Irms (A) max.	Isat (A) typ.
			typ.	max.		
SH60282R5YL□-□□□	2.5 \pm 30%	50	19.0	25.0	2.80	3.00
SH60283R3YL□-□□□	3.3 \pm 30%	45	21.0	28.0	2.50	2.60
SH60283R9YL□-□□□	3.9 \pm 30%	40	24.0	32.0	2.45	2.30
SH60285R0YL□-□□□	5.0 \pm 30%	38	27.0	36.0	2.40	2.10
SH60286R0YL□-□□□	6.0 \pm 30%	35	30.0	40.0	2.30	2.00
SH60287R3YL□-□□□	7.3 \pm 30%	30	38.0	52.0	2.20	1.85
SH60288R6YL□-□□□	8.6 \pm 30%	28	42.0	56.0	2.10	1.82
SH6028100YL□-□□□	10.0 \pm 30%	25	47.0	65.0	2.00	1.70
SH6028150YL□-□□□	15.0 \pm 30%	22	58.0	78.0	1.70	1.30
SH6028220YL□-□□□	22.0 \pm 30%	20	88.0	115.0	1.40	1.08
SH6028330YL□-□□□	33.0 \pm 30%	18	120.0	155.0	1.15	0.92
SH6028470YL□-□□□	47.0 \pm 30%	16	185.0	235.0	0.92	0.72
SH6028680YL□-□□□	68.0 \pm 30%	15	245.0	300.0	0.80	0.60
SH6028101YL□-□□□	100.0 \pm 30%	14	385.0	500.0	0.58	0.55
SH6028151YL□-□□□	150.0 \pm 30%	13	540.0	680.0	0.50	0.42
SH6028221YL□-□□□	220.0 \pm 30%	12	660.0	820.0	0.45	0.36
SH6028331YL□-□□□	330.0 \pm 30%	10	1100.0	1400.0	0.37	0.27
SH6028471YL□-□□□	470.0 \pm 30%	9	1650.0	2100.0	0.27	0.22
SH6028681YL□-□□□	680.0 \pm 30%	8	2450.0	3100.0	0.22	0.20
SH6028102YL□-□□□	1000.0 \pm 30%	7	3600.0	4500.0	0.15	0.17

- 1). □: Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance test freq. : 100kHz / 0.1V
- 5). Irms Base on temp rise 30°C max.
- 6). Isat Base on $\Delta L/L0A=35\%$ typ.



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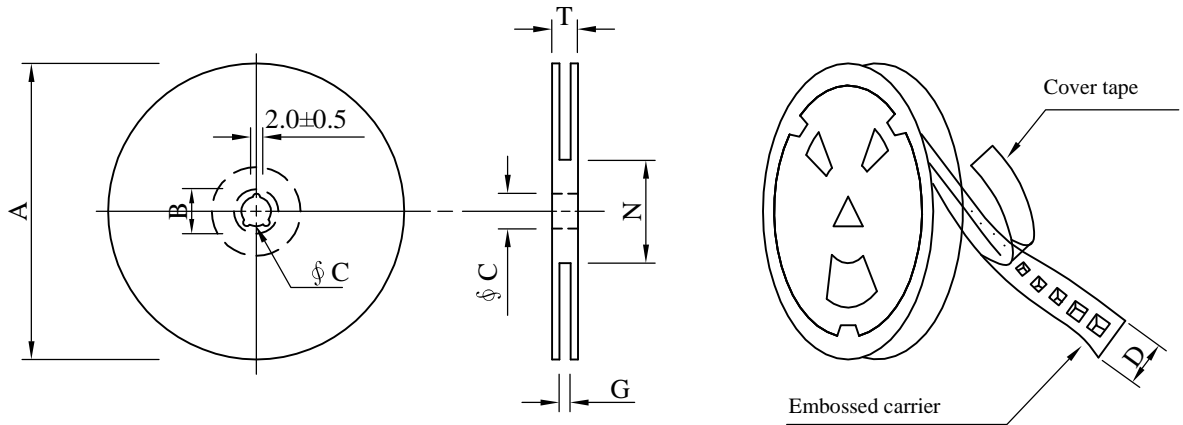
SPECIFICATION FOR APPROVAL

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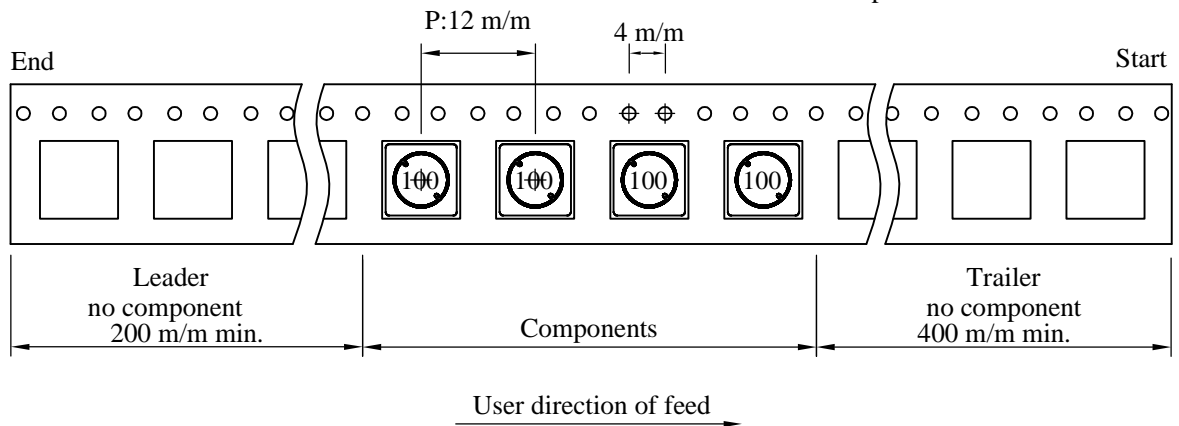
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SH6028□□□□L□-□□□		
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V . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	20.5
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	500	390	07 - 16	15,000	13.1	42 x 41 x 24
C	1500	1250	13 - 16	9,000	8.8	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SH6028□□□□L□-□□□		
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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 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 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 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 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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