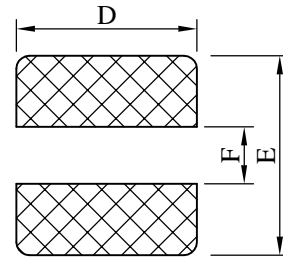
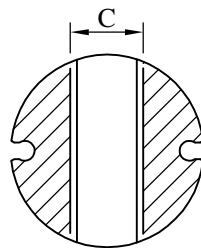
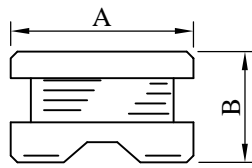
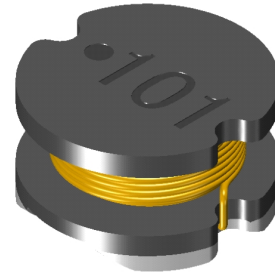
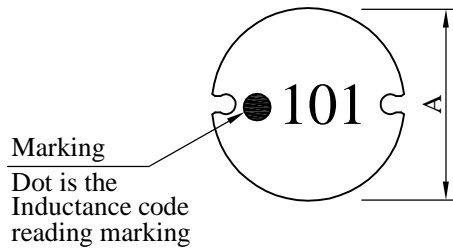


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SR1307□□□□L□-□□□		
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

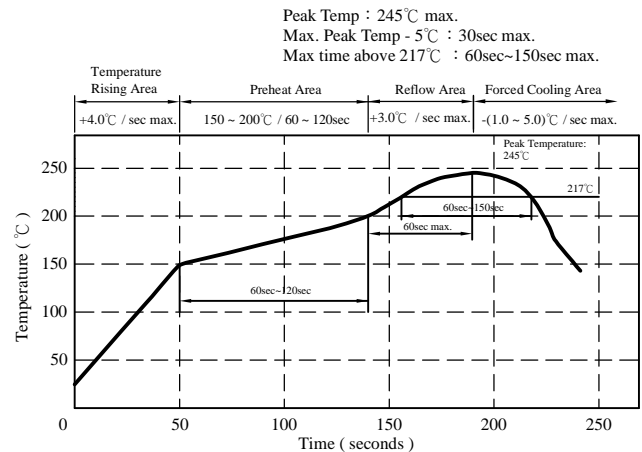
A	B	C	D	E	F
13.0 ±0.7	7.00 ±0.3	5.00 ref.	14.0 ref.	14.0 ref.	4.50 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F 、 H class
- c . Product weight : 3.80g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . 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 : 245°C .10 secs.



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IV . Electrical characteristics :

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (mΩ) max.	Irms (A)	Isat (A)
			L	Q				
SR13071R5ML□-□□□	1.5±20%	20	100k	7.960M	65.0	5.0	9.50	20.00
SR13072R2ML□-□□□	2.2±20%	22	100k	7.960M	50.0	6.0	9.00	18.00
SR13072R7ML□-□□□	2.7±20%	24	100k	7.960M	40.0	8.0	8.20	16.00
SR13073R3ML□-□□□	3.3±20%	26	100k	7.960M	38.0	8.7	7.50	15.00
SR13074R7ML□-□□□	4.7±20%	25	100k	7.960M	36.0	10.0	7.00	13.00
SR13075R6ML□-□□□	5.6±20%	24	100k	7.960M	28.0	15.0	6.50	11.00
SR13076R8ML□-□□□	6.8±20%	24	100k	7.960M	26.0	17.0	6.00	10.50
SR13078R2ML□-□□□	8.2±20%	24	100k	7.960M	24.0	19.0	5.80	9.80
SR1307100ML□-□□□	10.0±20%	22	100k	2.520M	22.0	21.0	5.60	9.20
SR1307120ML□-□□□	12.0±20%	25	100k	2.520M	20.0	30.0	4.80	8.00
SR1307150ML□-□□□	15.0±20%	28	100k	2.520M	17.0	34.0	4.50	7.50
SR1307180ML□-□□□	18.0±20%	28	100k	2.520M	16.0	36.0	4.20	7.00
SR1307220ML□-□□□	22.0±20%	40	100k	2.520M	15.0	47.0	3.60	6.50
SR1307270ML□-□□□	27.0±20%	35	100k	2.520M	11.0	60.0	3.30	5.50
SR1307330KL□-□□□	33.0±10%	35	100k	2.520M	10.0	65.0	3.10	5.00
SR1307390KL□-□□□	39.0±10%	28	100k	2.520M	9.0	75.0	2.90	4.60
SR1307470KL□-□□□	47.0±10%	24	100k	2.520M	7.5	82.0	2.70	4.20
SR1307560KL□-□□□	56.0±10%	22	100k	2.520M	7.2	100.0	2.50	3.80
SR1307680KL□-□□□	68.0±10%	24	100k	2.520M	7.0	120.0	2.30	3.50
SR1307820KL□-□□□	82.0±10%	18	100k	2.520M	6.0	140.0	2.10	3.20
SR1307101KL□-□□□	100.0±10%	25	100k	0.796M	5.8	180.0	1.90	3.00
SR1307121KL□-□□□	120.0±10%	20	100k	0.796M	5.5	210.0	1.80	2.80
SR1307151KL□-□□□	150.0±10%	20	100k	0.796M	4.5	250.0	1.60	2.60
SR1307181KL□-□□□	180.0±10%	18	100k	0.796M	4.0	280.0	1.50	2.30
SR1307221KL□-□□□	220.0±10%	15	100k	0.796M	3.8	360.0	1.30	2.10
SR1307271KL□-□□□	270.0±10%	15	100k	0.796M	3.5	410.0	1.20	1.80
SR1307331KL□-□□□	330.0±10%	15	100k	0.796M	3.2	520.0	1.10	1.60
SR1307391KL□-□□□	390.0±10%	12	100k	0.796M	2.5	600.0	1.00	1.50
SR1307471KL□-□□□	470.0±10%	12	100k	0.796M	2.2	720.0	0.90	1.40
SR1307561KL□-□□□	560.0±10%	10	100k	0.796M	2.0	880.0	0.85	1.30
SR1307681KL□-□□□	680.0±10%	10	100k	0.796M	1.6	1000.0	0.80	1.20
SR1307821KL□-□□□	820.0±10%	10	100k	0.796M	1.5	1300.0	0.75	1.10
SR1307102KL□-□□□	1000.0±10%	10	100k	0.252M	1.4	1600.0	0.65	1.00

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance Test Freq. at 100kHz / 0.1V
- 5). Isat base on ΔL/L0A=10% typ.
- 6). Irms base on Temp. rise 40°C max.

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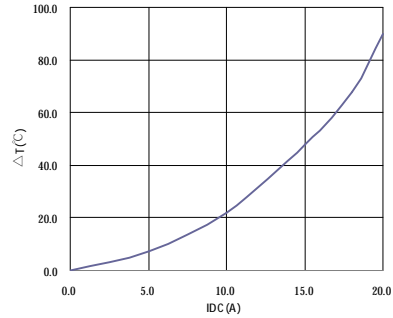
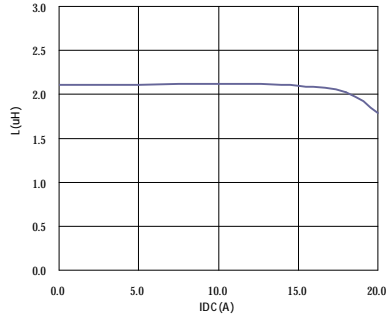
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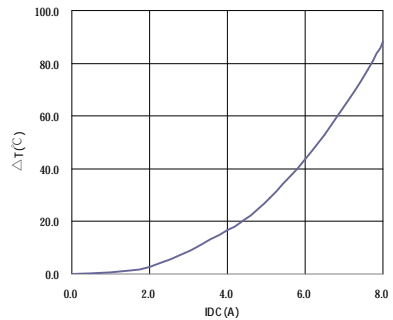
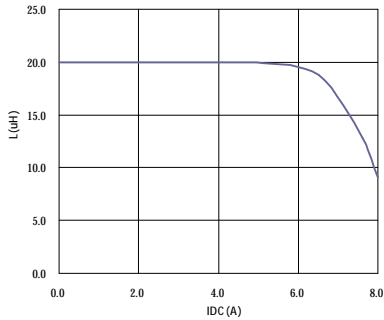
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V . Curve :

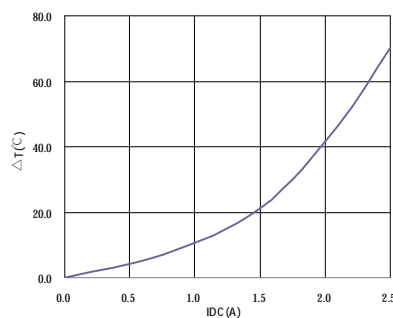
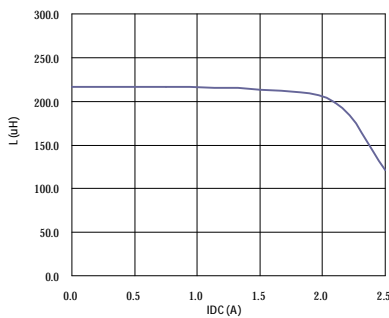
SR13072R2ML□



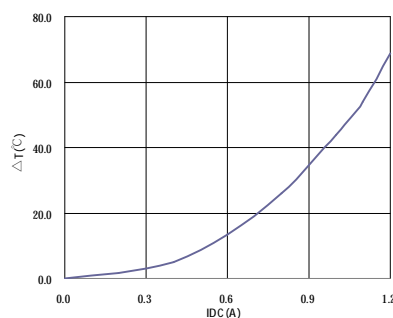
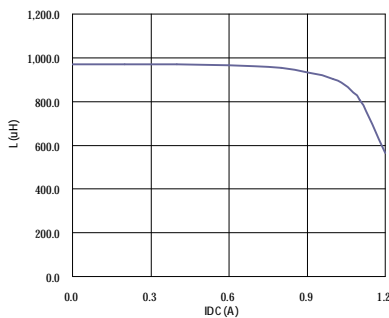
SR1307220ML□



SR1307221KL□



SR1307102KL□



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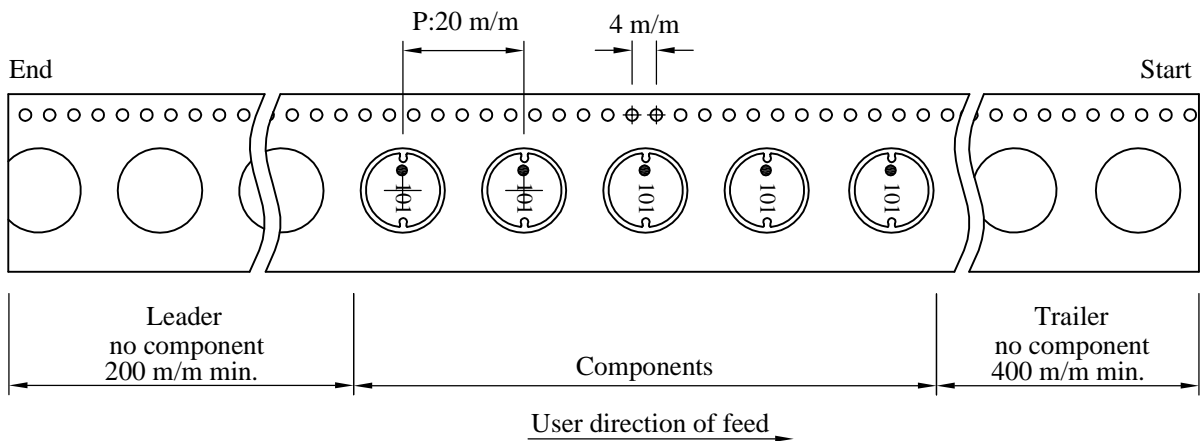
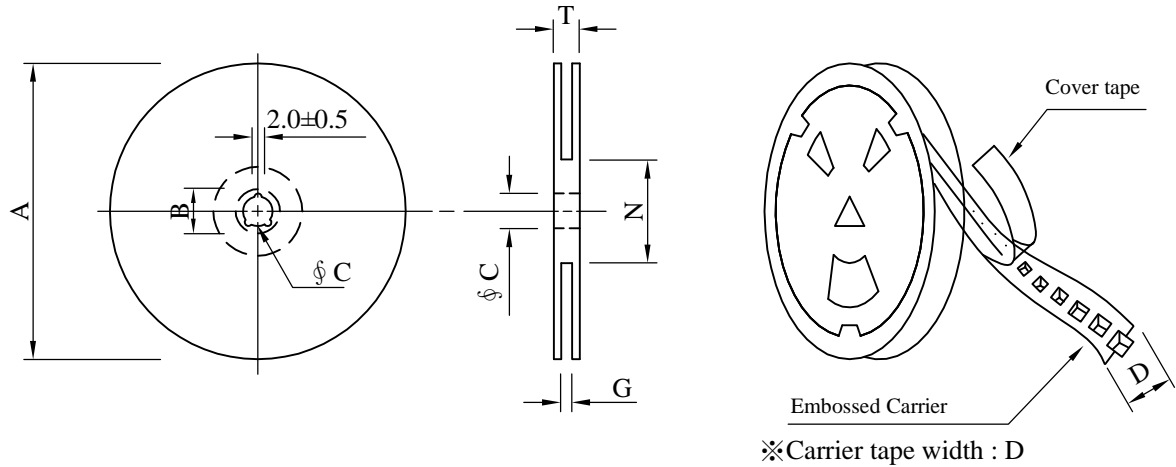
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VI . Packaging information :

(1) Configuration



(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	400	1860	13 - 24	1,600	8.7	38 x 37 x 22

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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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 Second. 3.IR reflow times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
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 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 ±10%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. pcb and dropped down from a heigh of 1m 2.Drop total time : 6 time (Every side ofsample 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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