SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SR0403□□□□L□-□□□		
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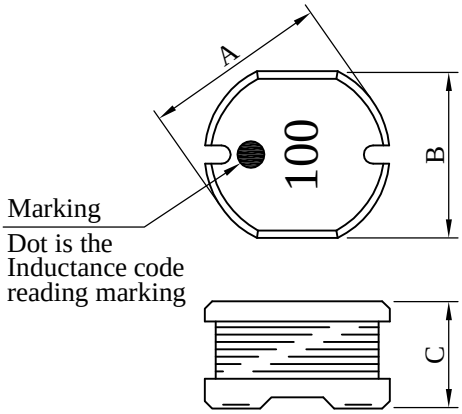
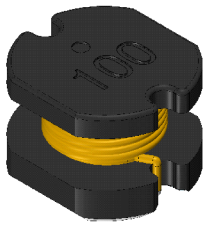
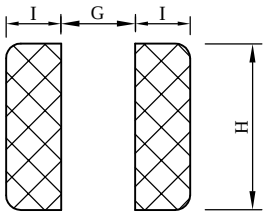
Ⅰ．Configuration and dimensions：





(PCB Pattern)



Unit：m/m

A	B	C	D	G	H	I
4.5 ±0.3	4.0 ±0.3	3.2 ±0.3	1.5 typ.	1.5 ref.	4.5 ref.	1.8 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Enamelled copper wire：H class

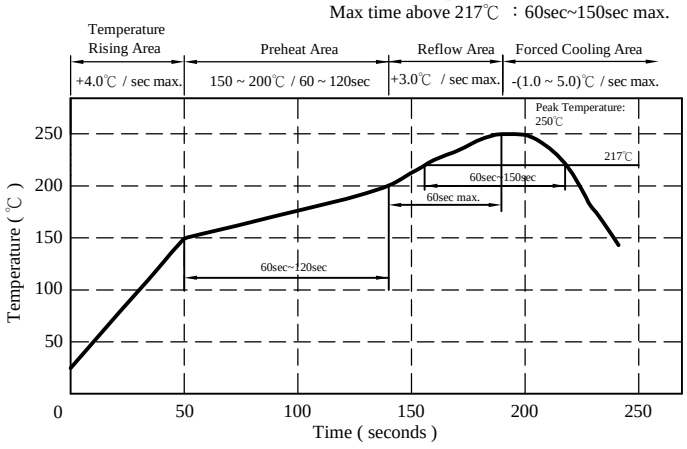
c．Product weight：0.179 g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen Free available

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



Ⅲ．General specification：

a．Storage temp.：-55℃ ----+125℃

b．Operating temp.：-40℃----+125℃
(Temp. rise included)

c．Resistance to solder heat：250℃.10 secs.

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Ⅳ . Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	IDC (A) max.
			L	Q		
SR04031R0ML□-□□□	1.0±20%	28	1K	7.960M	0.033	3.800
SR04031R4ML□-□□□	1.4±20%	28	1K	7.960M	0.038	3.300
SR04031R8ML□-□□□	1.8±20%	28	1K	7.960M	0.042	2.910
SR04032R2ML□-□□□	2.2±20%	28	1K	7.960M	0.047	2.600
SR04032R7ML□-□□□	2.7±20%	28	1K	7.960M	0.052	2.430
SR04033R3ML□-□□□	3.3±20%	28	1K	7.960M	0.058	2.150
SR04033R9ML□-□□□	3.9±20%	28	1K	7.960M	0.076	1.980
SR04034R7ML□-□□□	4.7±20%	28	1K	7.960M	0.094	1.700
SR04035R6ML□-□□□	5.6±20%	28	1K	7.960M	0.101	1.600
SR04036R8ML□-□□□	6.8±20%	28	1K	7.960M	0.117	1.410
SR04038R2ML□-□□□	8.2±20%	28	1K	7.960M	0.132	1.260
SR0403100ML□-□□□	10.0±20%	28	1K	2.520M	0.182	1.150
SR0403120ML□-□□□	12.0±20%	28	1K	2.520M	0.210	1.050
SR0403150ML□-□□□	15.0±20%	28	1K	2.520M	0.235	0.920
SR0403180ML□-□□□	18.0±20%	25	1K	2.520M	0.338	0.840
SR0403220ML□-□□□	22.0±20%	25	1K	2.520M	0.378	0.760
SR0403270ML□-□□□	27.0±20%	20	1K	2.520M	0.522	0.710
SR0403330KL□ -□□□	33.0±10%	20	1K	2.520M	0.540	0.640
SR0403390KL□ -□□□	39.0±10%	20	1K	2.520M	0.587	0.590
SR0403470KL□ -□□□	47.0±10%	20	1K	2.520M	0.844	0.540
SR0403560KL□ -□□□	56.0±10%	20	1K	2.520M	0.937	0.500
SR0403680KL□ -□□□	68.0±10%	20	1K	2.520M	1.117	0.460
SR0403820KL□ -□□□	82.0±10%	25	1K	2.520M	1.270	0.420
SR0403101KL□ -□□□	100.0±10%	35	1K	0.796M	1.900	0.350
SR0403121KL□ -□□□	120.0±10%	50	1K	0.796M	2.200	0.320
SR0403151KL□ -□□□	150.0±10%	50	1K	0.796M	3.400	0.260
SR0403181KL□ -□□□	180.0±10%	50	1K	0.796M	3.900	0.240
SR0403221KL□ -□□□	220.0±10%	50	1K	0.796M	4.400	0.220
SR0403271KL□ -□□□	270.0±10%	45	1K	0.796M	5.000	0.200
SR0403331KL□ -□□□	330.0±10%	40	1K	0.796M	6.000	0.170
SR0403391KL□ -□□□	390.0±10%	40	1K	0.796M	6.400	0.150
SR0403471KL□ -□□□	470.0±10%	50	1K	0.796M	7.000	0.130
SR0403561KL□ -□□□	560.0±10%	50	1K	0.796M	7.800	0.120
SR0403681KL□ -□□□	680.0±10%	40	1K	0.796M	8.600	0.110
SR0403821KL□ -□□□	820.0±10%	38	1K	0.796M	12.000	0.100
SR0403102KL□ -□□□	1000.0±10%	38	1K	0.252M	14.000	0.090

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

4). IDC base on △L/L0A=10% max.
& Temp. rise 40℃ max.

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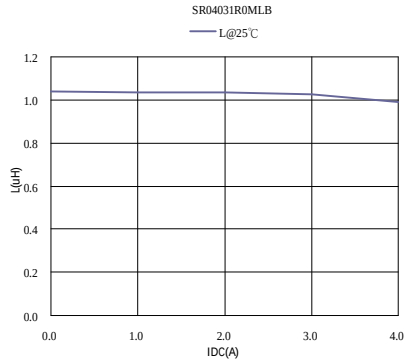
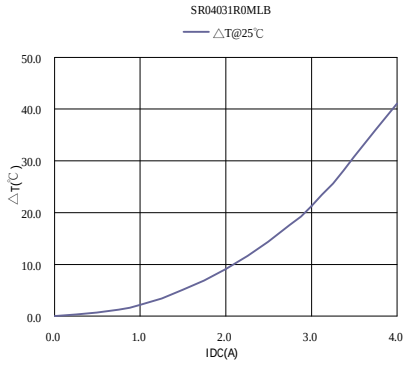
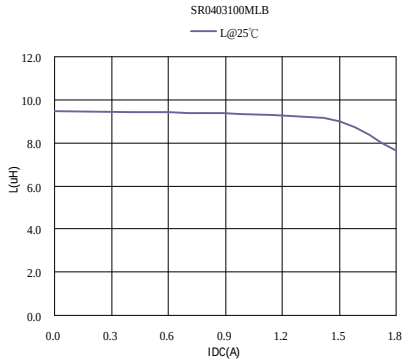
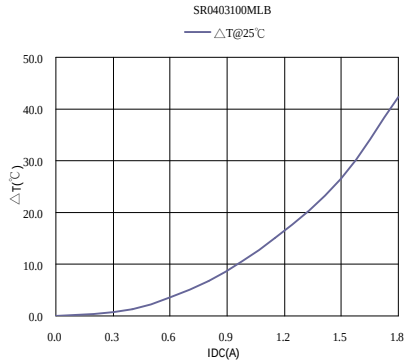
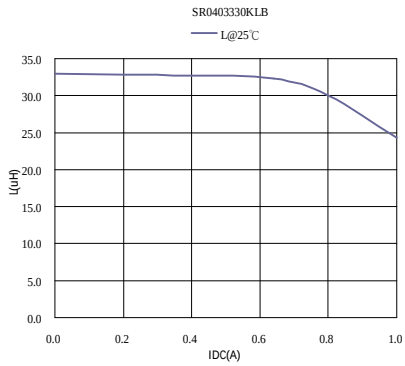
V . Curve：

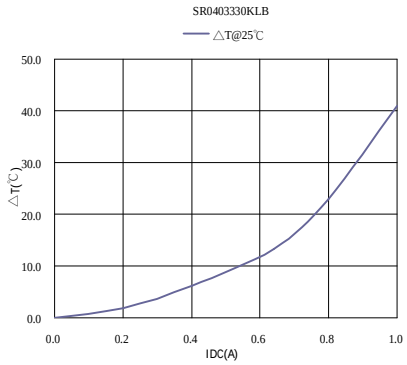


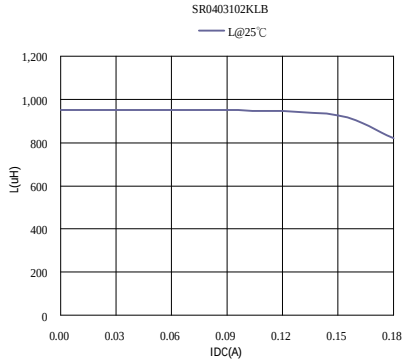


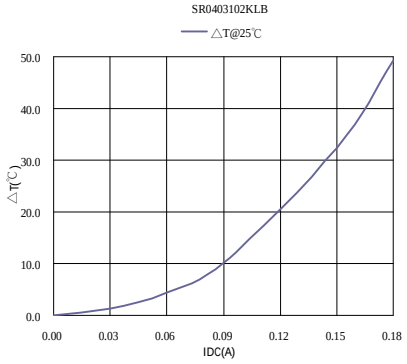












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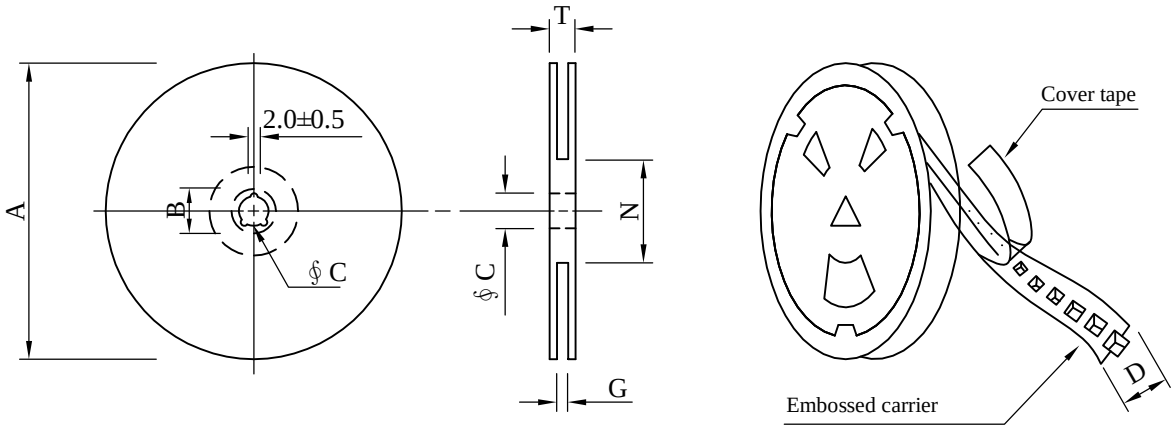
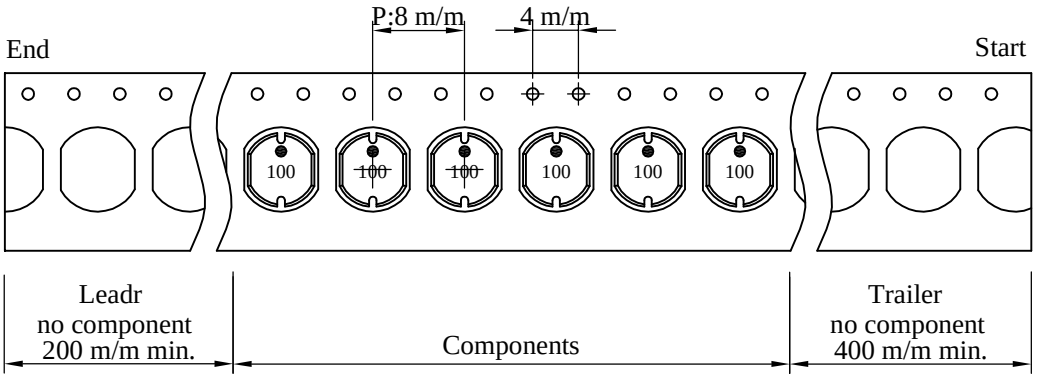
Ⅵ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
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	2,000	690	13 - 12	16,000	6.8	38 x 37 x 22
C	1,500	610	13 - 12	12,000	6.2	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: -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 ±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 apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±10%.
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 ±10%.
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 ±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% 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 ±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.