SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SR0906□□□□L□-□□□		
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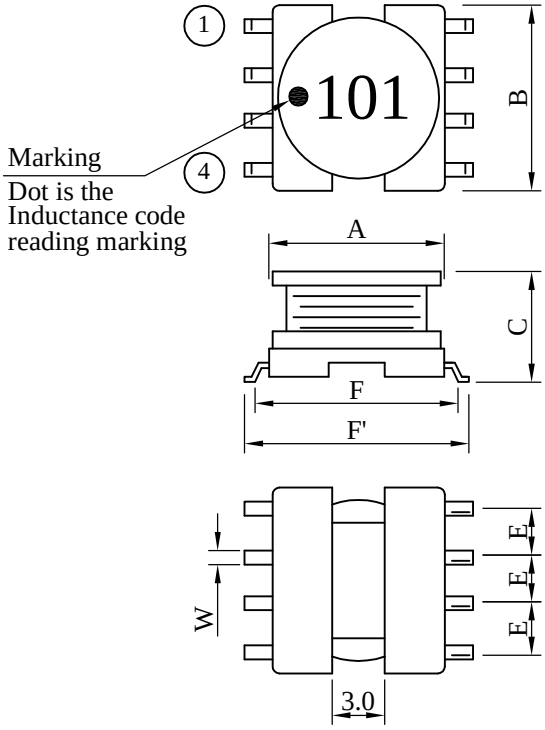
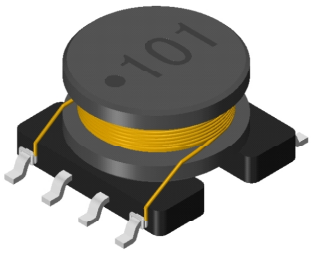
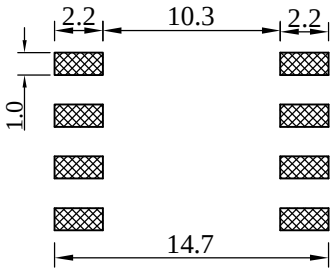
Ⅰ．Configuration and dimensions：





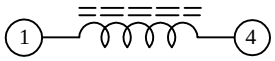


(PCB Pattern)

Unit：m/m

A	B	C	E	F	F'	W
9.50±0.5	10.50 max.	6.00±0.3	2.50±0.3	11.0±0.5	12.70±0.8	0.60 typ.

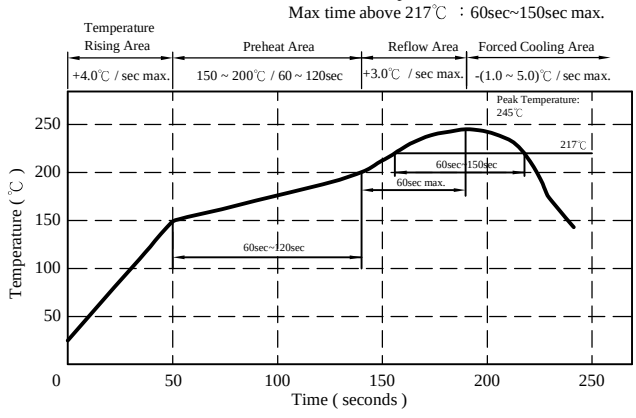
Ⅱ．Schematic diagram：



Ⅲ．Description：

a．Ferrite drum core construction.
b．Enamelled copper wire：F、H class
c．Product weight： 1.30g（ref.）
d．Moisture sensitivity Level 1
e．Products comply with RoHS' requirements
f．Halogen free available

Peak Temp：245℃ max.
Max. Peak Temp - 5℃：30sec max.
Max time above 217℃ ：60sec~150sec max.



Ⅳ．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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Ⅴ．Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR09062R2ML□-□□□	2.2±20%	30	1k	7.960M	105.0	0.032	4.00
SR09062R7ML□-□□□	2.7±20%	30	1k	7.960M	84.0	0.038	3.50
SR09063R9ML□-□□□	3.9±20%	28	1k	7.960M	77.0	0.043	3.30
SR09064R7ML□-□□□	4.7±20%	28	1k	7.960M	55.0	0.050	3.00
SR09065R6ML□-□□□	5.6±20%	28	1k	7.960M	42.0	0.055	2.80
SR09066R8ML□-□□□	6.8±20%	27	1k	7.960M	36.0	0.060	2.60
SR09068R2ML□-□□□	8.2±20%	27	1k	7.960M	29.0	0.065	2.40
SR0906100ML□-□□□	10.0±20%	35	1k	2.520M	25.0	0.090	2.10
SR0906120ML□-□□□	12.0±20%	35	1k	2.520M	23.0	0.100	2.00
SR0906150ML□-□□□	15.0±20%	35	1k	2.520M	22.0	0.110	1.90
SR0906180ML□-□□□	18.0±20%	35	1k	2.520M	19.0	0.120	1.80
SR0906220ML□-□□□	22.0±20%	35	1k	2.520M	16.0	0.130	1.60
SR0906270KL□-□□□	27.0±10%	35	1k	2.520M	15.0	0.150	1.40
SR0906330KL□-□□□	33.0±10%	35	1k	2.520M	13.5	0.180	1.25
SR0906390KL□-□□□	39.0±10%	25	1k	2.520M	13.0	0.190	1.15
SR0906470KL□-□□□	47.0±10%	25	1k	2.520M	12.2	0.230	1.10
SR0906560KL□-□□□	56.0±10%	25	1k	2.520M	12.0	0.260	1.05
SR0906680KL□-□□□	68.0±10%	20	1k	2.520M	10.0	0.310	1.00
SR0906820KL□-□□□	82.0±10%	20	1k	2.520M	9.2	0.330	0.95
SR0906101KL□-□□□	100.0±10%	15	1k	0.796M	9.0	0.390	0.90
SR0906121KL□-□□□	120.0±10%	15	1k	0.796M	8.0	0.430	0.85
SR0906151KL□-□□□	150.0±10%	15	1k	0.796M	7.5	0.560	0.75
SR0906181KL□-□□□	180.0±10%	15	1k	0.796M	7.0	0.640	0.70
SR0906221KL□-□□□	220.0±10%	20	1k	0.796M	6.0	0.850	0.60
SR0906271KL□-□□□	270.0±10%	20	1k	0.796M	5.5	1.000	0.55
SR0906331KL□-□□□	330.0±10%	15	1k	0.796M	5.3	1.270	0.50
SR0906391KL□-□□□	390.0±10%	15	1k	0.796M	5.0	1.400	0.45
SR0906471KL□-□□□	470.0±10%	15	1k	0.796M	4.8	1.630	0.40
SR0906561KL□-□□□	560.0±10%	15	1k	0.796M	4.5	2.100	0.32
SR0906681KL□-□□□	680.0±10%	15	1k	0.796M	4.0	2.400	0.28
SR0906821KL□-□□□	820.0±10%	15	1k	0.796M	3.5	2.750	0.24
SR0906102KL□-□□□	1000.0±10%	60	1k	0.252M	2.5	3.500	0.22
SR0906122KL□-□□□	1200.0±10%	60	1k	0.252M	2.0	4.000	0.20
SR0906152KL□-□□□	1500.0±10%	70	1k	0.252M	2.0	5.000	0.18
SR0906182KL□-□□□	1800.0±10%	60	1k	0.252M	1.9	5.800	0.17
SR0906222KL□-□□□	2200.0±10%	94	1k	0.252M	1.6	8.000	0.14
SR0906272KL□-□□□	2700.0±10%	90	1k	0.252M	1.3	9.000	0.13
SR0906332KL□-□□□	3300.0±10%	78	1k	0.252M	1.3	10.000	0.12
SR0906392KL□-□□□	3900.0±10%	96	1k	0.252M	1.2	13.500	0.10
SR0906472KL□-□□□	4700.0±10%	86	1k	0.252M	1.0	15.000	0.09
SR0906562KL□-□□□	5600.0±10%	100	1k	0.252M	1.0	20.000	0.07
SR0906682KL□-□□□	6800.0±10%	90	1k	0.252M	0.9	23.000	0.06
SR0906822KL□-□□□	8200.0±10%	100	1k	0.252M	0.8	28.000	0.05
SR0906103KL□-□□□	10000.0±10%	100	1k	79.6k	0.7	33.000	0.04

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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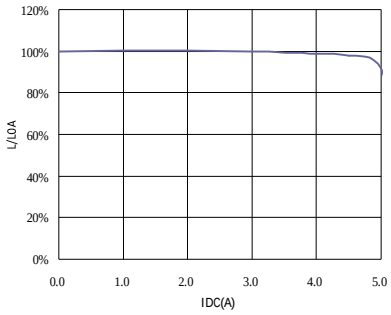
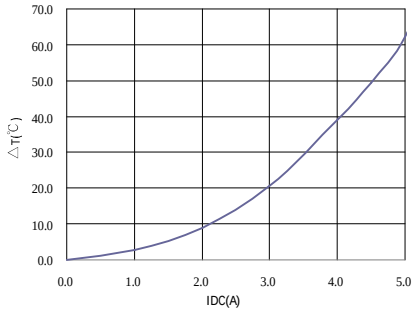
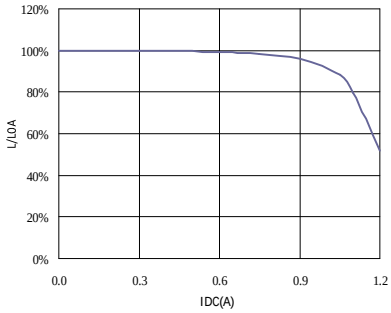
Ⅵ．Curve：

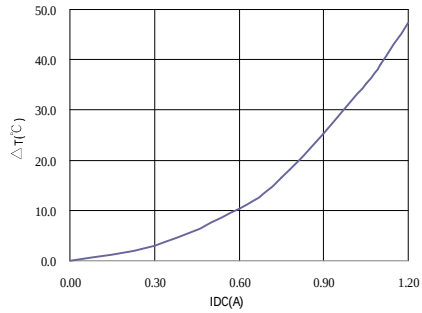
SR09062R2ML□



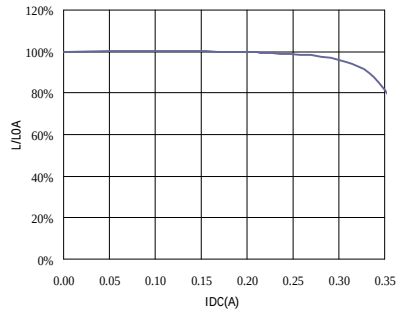


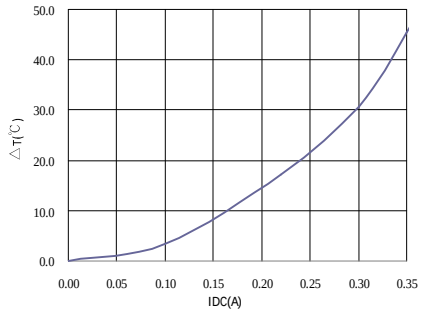
SR0906101KL□



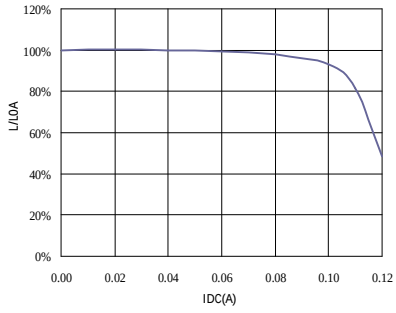


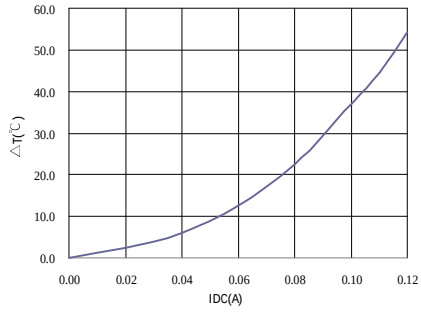
SR0906102KL□





SR0906103KL□





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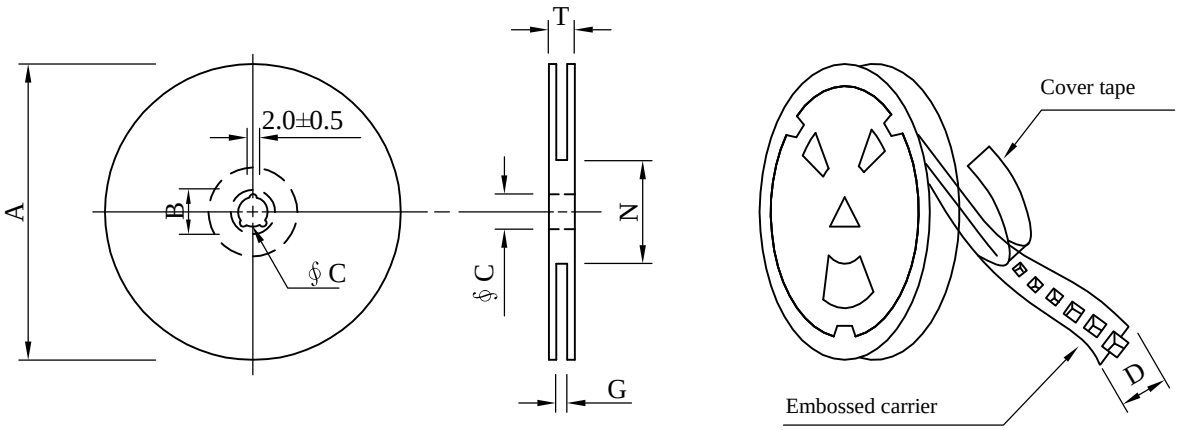
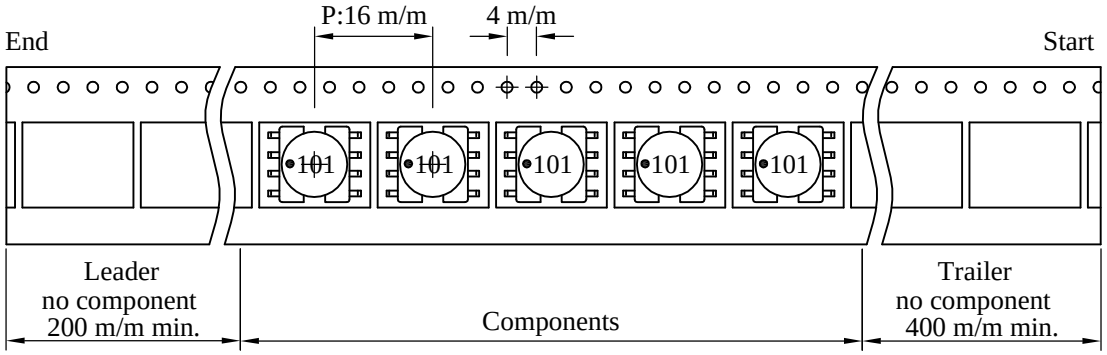
Ⅶ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 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	600	1200	13 - 24	2,400	6.1	38 x 37 x 22

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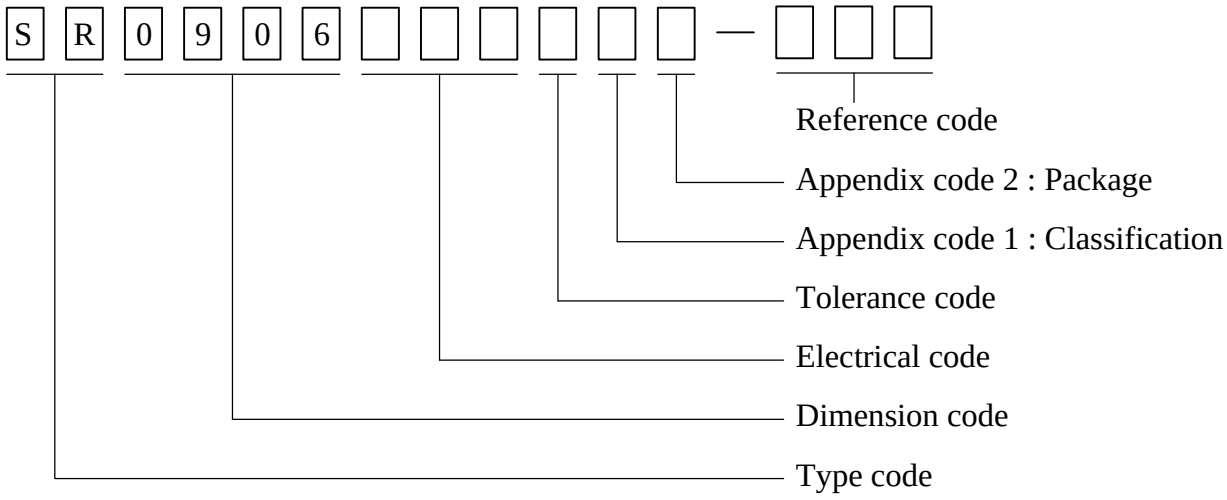
Ⅷ．Drawing number expression：



Appendix code 1：Product Classification

Appendix code 2：Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
B	T /R (Reel package)	UCT	Antistatic	Antistatic	600 pcs	
C	T /R (Reel package)	UCT	Antistatic	Antistatic	600 pcs	

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Ⅸ．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 cycles. 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：245±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 ±10%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 seconds. 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 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 ±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 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.