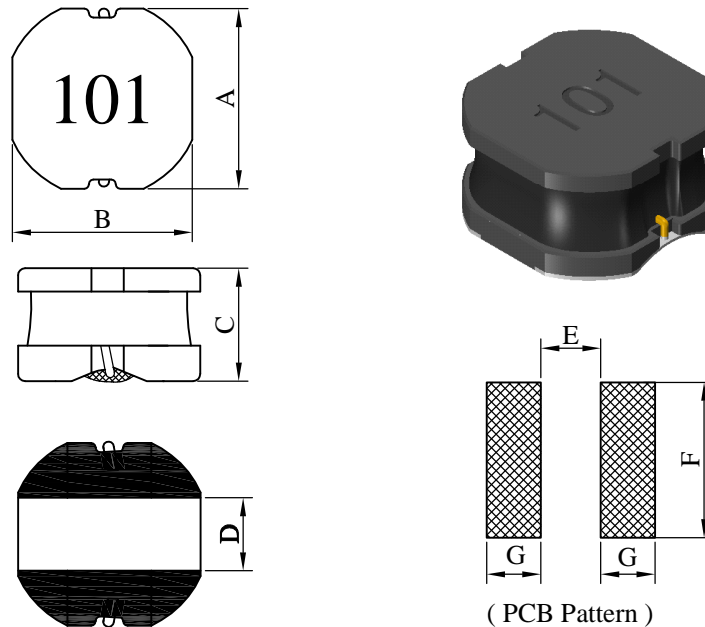


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Semi-shielded SMD Power Inductor	ABC'S DWG NO.	RN1060□□□□L□-□□□		
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

A	B	C	D	E	F	G
9.80 ±0.3	10.00 ±0.3	6.00 max.	3.30 ref.	3.10 ref.	10.20 ref.	3.50 ref.

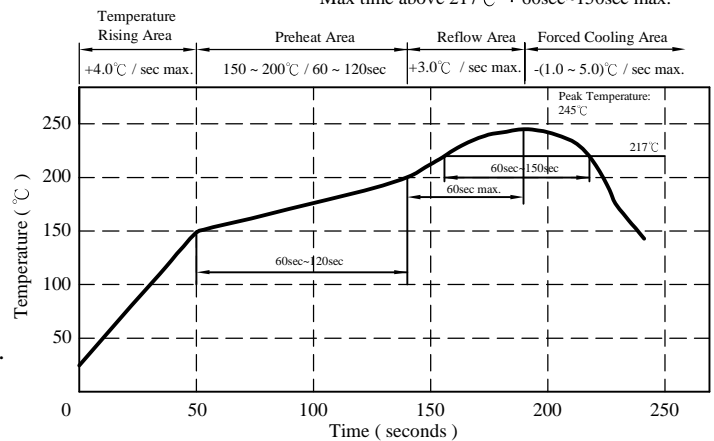
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically epoxy resin.
- c . Enamelled copper wire : F class
- d . Product weight : 2.0 g (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 : 245°C . 10 secs.

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



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IV . Electrical characteristics :

DWG No.	Inductance (uH)	RDC (mΩ)		Isat (A) typ.	Irms (A) max.
		ref.	max.		
RN10601R5YL□-□□□	1.5±30%	7.6	10.0	13.00	10.00
RN10602R0YL□-□□□	2.0±30%	10.0	13.0	11.00	8.00
RN10603R3YL□-□□□	3.3±30%	13.5	18.0	8.50	7.20
RN10604R7YL□-□□□	4.7±30%	15.4	20.0	7.60	6.30
RN10606R8YL□-□□□	6.8±30%	18.4	24.0	6.60	5.80
RN1060100ML□-□□□	10.0±20%	22.3	29.0	5.20	5.40
RN1060150ML□-□□□	15.0±20%	27.6	36.0	4.50	4.50
RN1060180ML□-□□□	18.0±20%	32.0	43.0	3.80	3.85
RN1060220ML□-□□□	22.0±20%	35.1	53.0	3.40	3.40
RN1060330ML□-□□□	33.0±20%	46.0	72.0	2.80	3.15
RN1060470ML□-□□□	47.0±20%	80.5	110.0	2.30	2.50
RN1060101ML□-□□□	100.0±20%	154.0	208.0	1.70	1.70
RN1060151ML□-□□□	150.0±20%	235.0	300.0	1.35	1.25
RN1060221ML□-□□□	220.0±20%	354.0	460.0	1.20	1.00
RN1060331ML□-□□□	330.0±20%	512.0	620.0	0.90	0.90
RN1060471ML□-□□□	470.0±20%	731.0	950.0	0.80	0.80

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance test freq. : 100kHz / 1V
- 5). Isat base on $\Delta L/L0A=30\%$ typ.
- 6). Irms base on Temp. rise 40°C max.

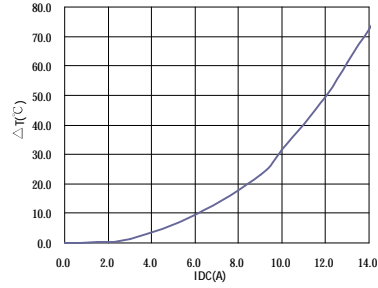
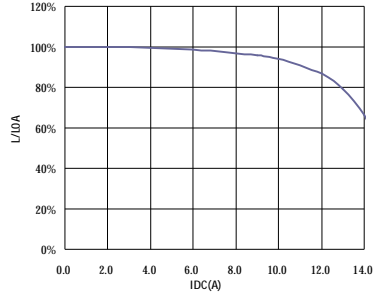
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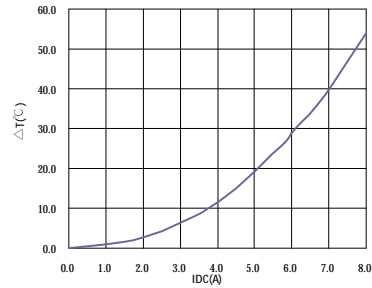
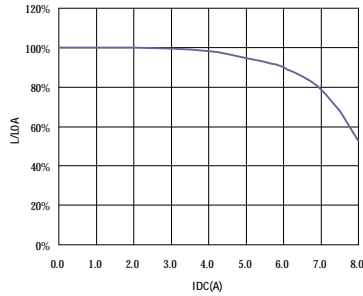
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V . Curve :

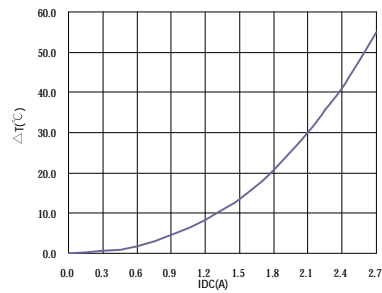
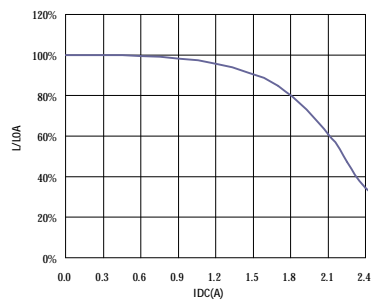
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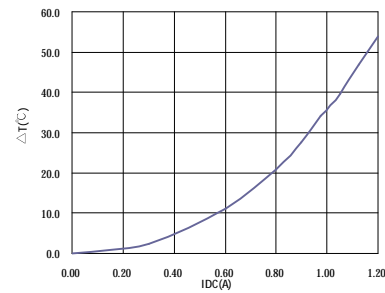
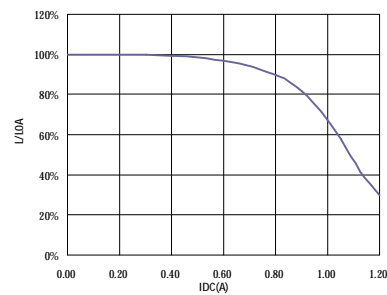
RN10606R8YL□



RN1060101ML□



RN1060471ML□



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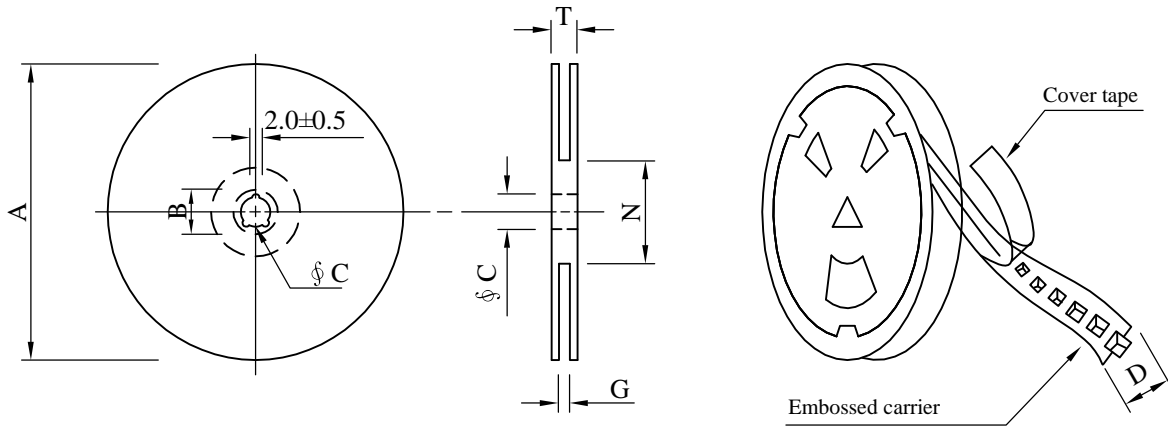
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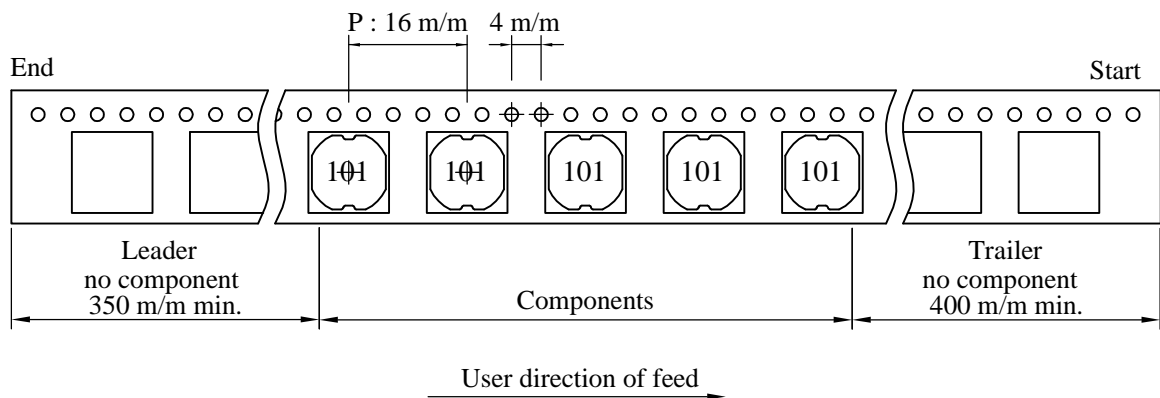
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(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	600	1,570	13 - 24	2,400	7.6	38 x 37 x 22

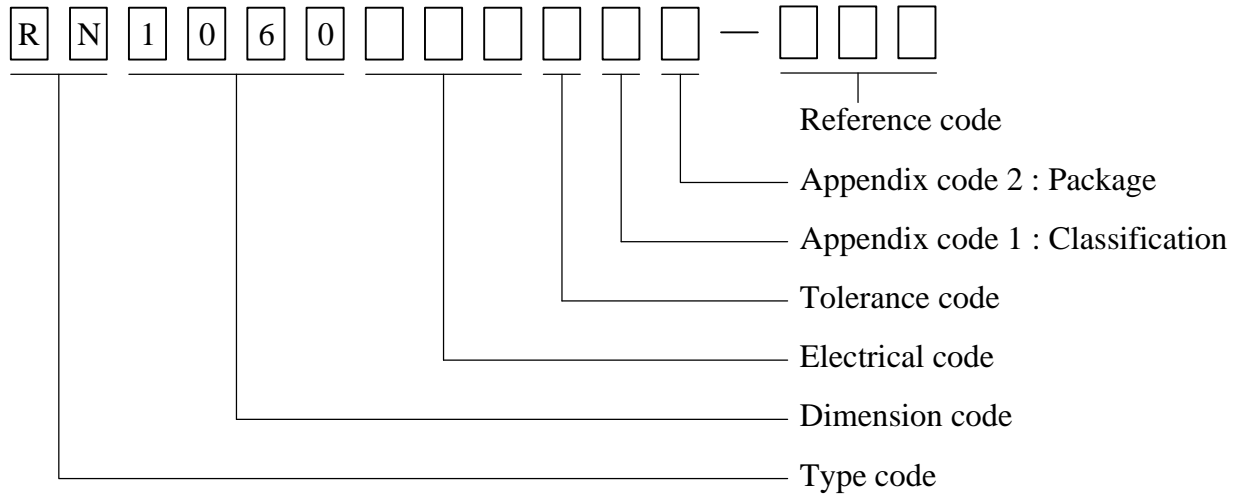
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VII . Drawing number expression :



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	

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VIII . 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 appearance. 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 : 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 ±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 30% 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 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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