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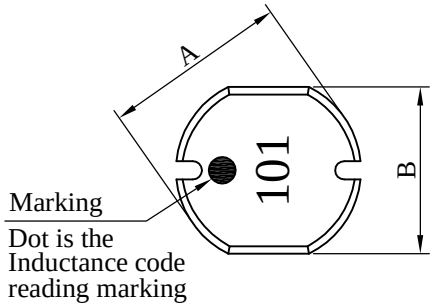
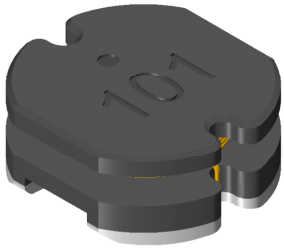
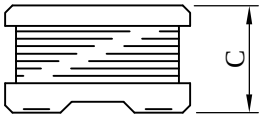
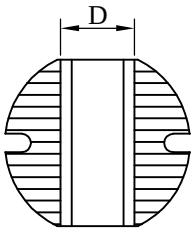
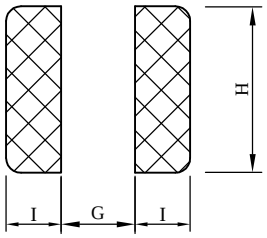
Ⅰ．Configuration and dimensions：











(PCB Pattern)

Unit：m/m

A	B	C	D	G	H	I
5.00 ±0.3	4.50 ±0.3	2.00 ±0.15	2.00 ref.	1.90 ref.	5.00 ref.	1.80 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Enamelled copper wire：F、H class

c．Product weight： 0.190g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available

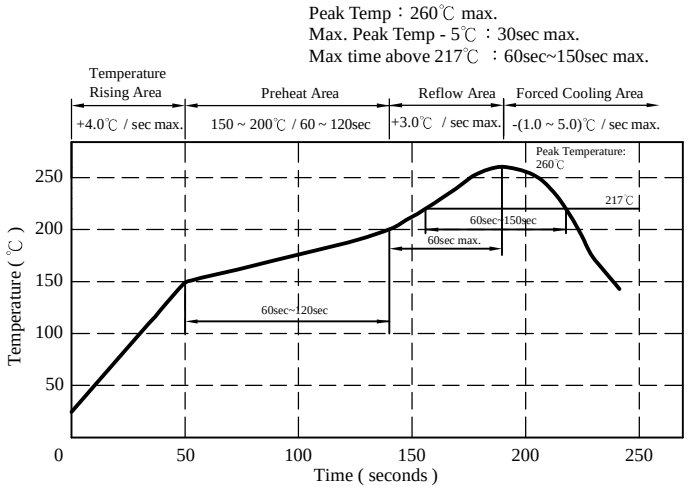
Ⅲ．General specification：

c．Storage temp.：-40℃ ----+125℃

d．Operating temp.：-40℃----+125℃

(Temp. rise included)

e．Resistance to solder heat：260℃.10 secs.



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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	Irms (mA)max. △T=20℃	Isat (mA)typ. △L/L0A=10%
			L	Q			
SR0502101ML□-□□□	100.0±20%	20	100k/0.1V	796k	1.5	270	265
SR0502121ML□-□□□	120.0±20%	27	100k/0.1V	796k	1.7	252	245
SR0502151ML□-□□□	150.0±20%	28	100k/0.1V	796k	2.2	237	232
SR0502181ML□-□□□	180.0±20%	25	100k/0.1V	796k	2.5	220	215
SR0502221ML□-□□□	220.0±20%	32	100k/0.1V	796k	3.2	204	200
SR0502271ML□-□□□	270.0±20%	30	100k/0.1V	796k	3.9	190	182
SR0502331ML□-□□□	330.0±20%	40	100k/0.1V	796k	5.0	174	165
SR0502391ML□-□□□	390.0±20%	40	100k/0.1V	796k	5.4	156	148
SR0502471ML□-□□□	470.0±20%	32	100k/0.1V	796k	6.5	140	130
SR0502561ML□-□□□	560.0±20%	45	100k/0.1V	796k	8.8	125	120
SR0502681ML□-□□□	680.0±20%	40	100k/0.1V	796k	10.5	110	105
SR0502821ML□-□□□	820.0±20%	35	100k/0.1V	796k	12.0	97	95
SR0502102ML□-□□□	1000.0±20%	42	100k/0.1V	252k	16.0	85	85
SR0502122ML□-□□□	1200.0±20%	44	100k/0.1V	252k	18.5	76	80
SR0502152ML□-□□□	1500.0±20%	40	100k/0.1V	252k	22.0	70	72
SR0502182ML□-□□□	1800.0±20%	40	100k/0.1V	252k	28.5	65	68
SR0502222ML□-□□□	2200.0±20%	40	100k/0.1V	252k	34.5	60	62
SR0502272ML□-□□□	2700.0±20%	40	100k/0.1V	252k	40.0	53	55

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

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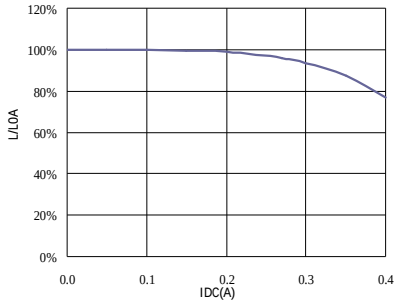
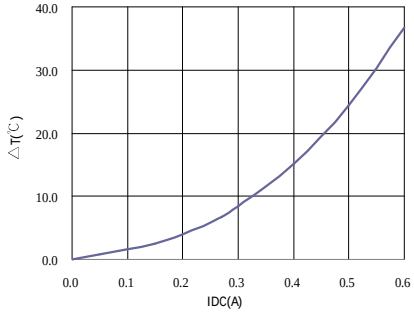
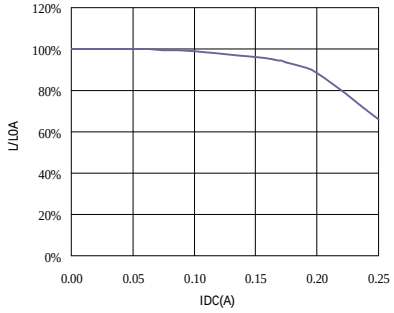
V . Curve：

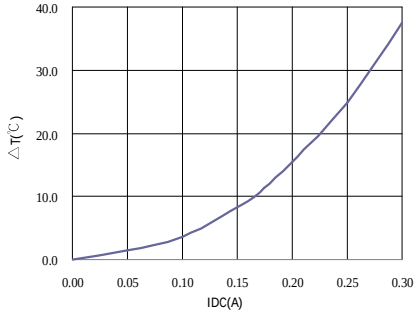
SR0502101ML□



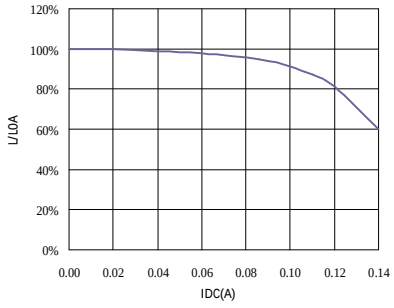


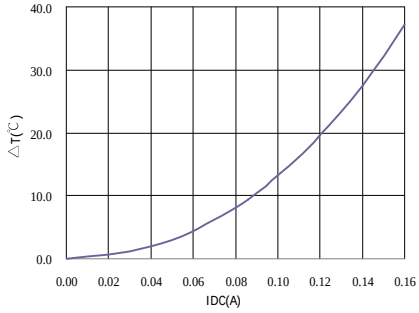
SR0502331ML□



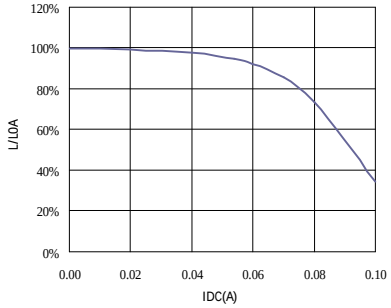


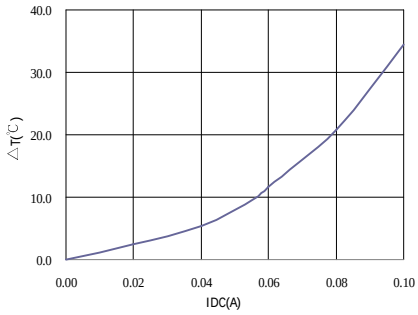
SR0502102ML□





SR0502272ML□





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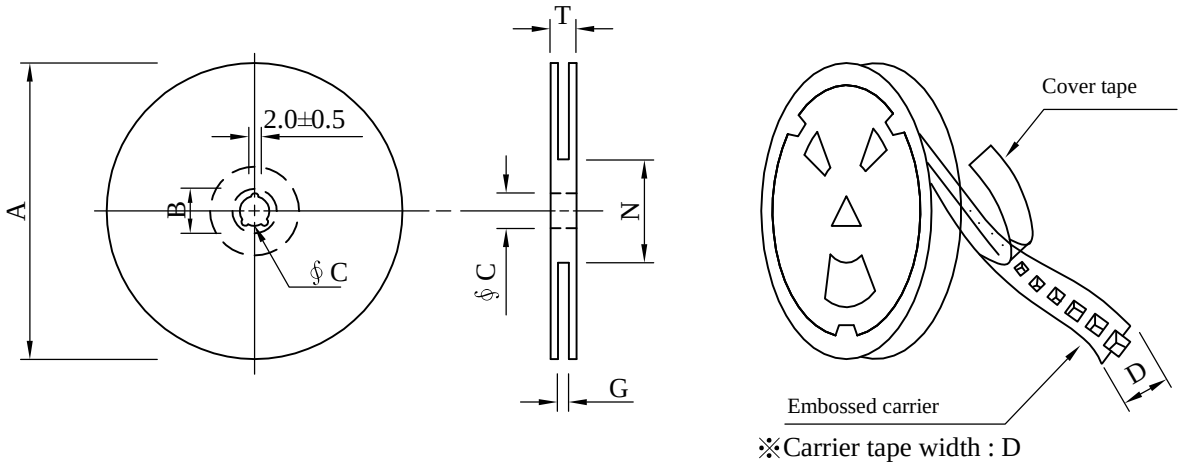
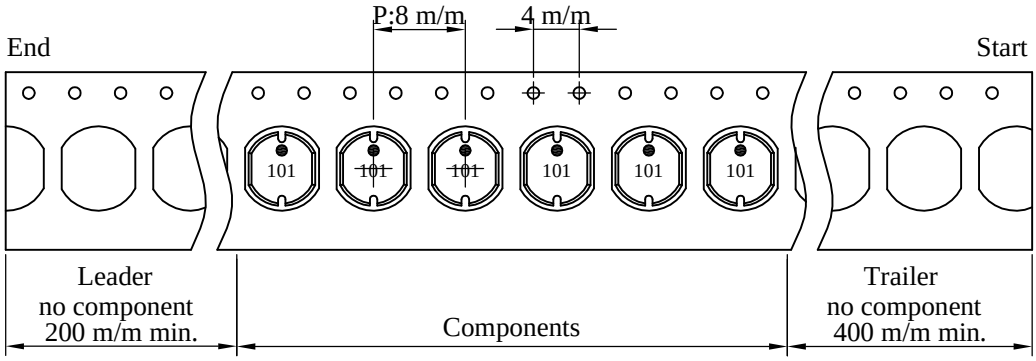
Ⅵ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13±0.5	12	14^{+0}	50^{-0}	16.5

(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	800	220	07 - 12	32,000	10.3	42 x 41 x 24

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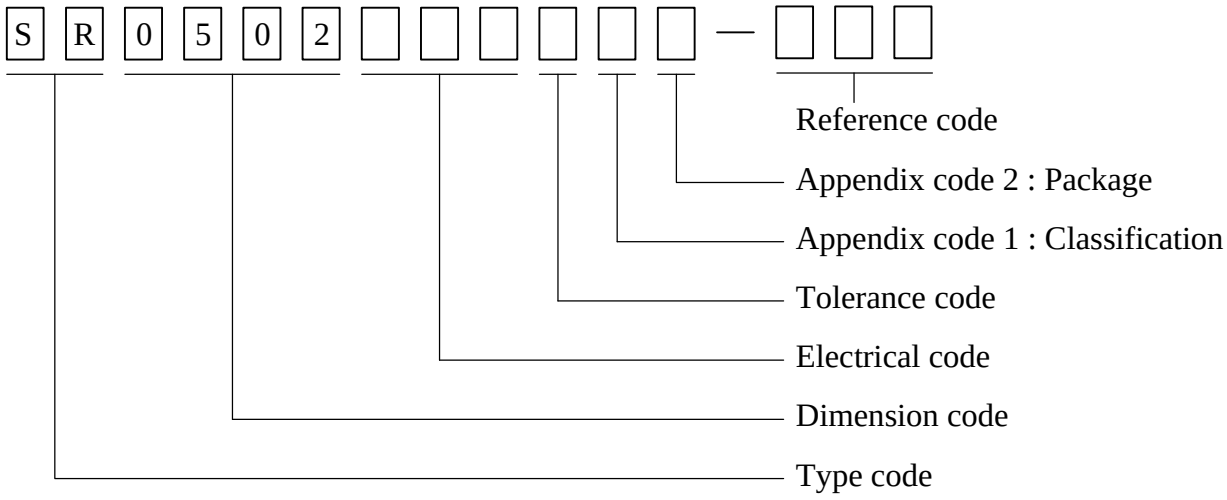
Ⅶ．Drawing number expression：



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	800 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 ±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：260±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% 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 20 ℃ 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 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 times. (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.