SPECIFICATION FOR APPROVAL

REF. :

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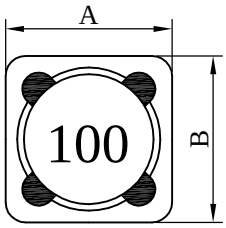
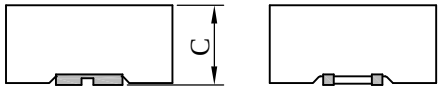
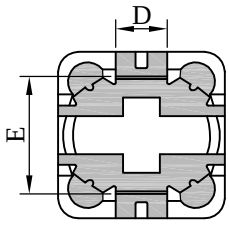
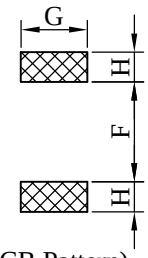
Ⅰ．Configuration and dimensions：









(PCB Pattern)

Unit：m/m

A	B	C	D	E	F	G	H
12.50±0.3	12.50±0.3	6.00±0.5	4.90 typ.	7.90 typ.	7.30 typ.	5.30 ref.	2.80 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Magnetically shielded.

c．Enamelled copper wire：F & H class

d．Product weight： 3.10 g（ref.）

e．Moisture sensitivity Level 1

f．Products comply with RoHS' requirements

g．Halogen free available

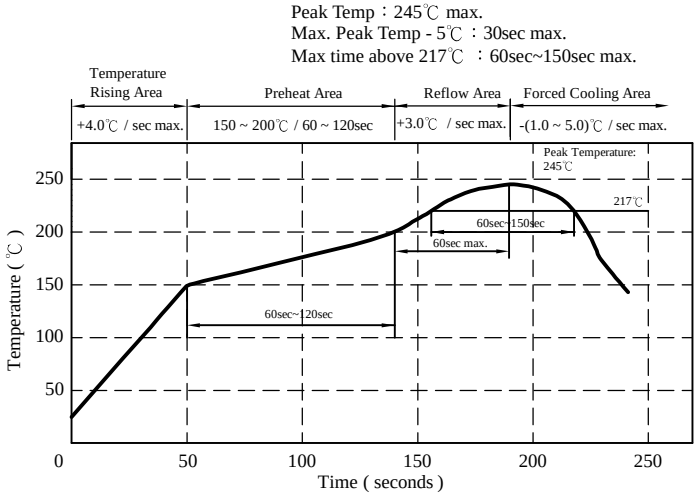
Ⅲ．General specification：

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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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	RDC(mΩ)		Isat (A)	Irms (A)
		ref.	max.		
CS1206100ML□-□□□	10±20%	24.9	35	5.50	4.80
CS1206120ML□-□□□	12±20%	26.9	38	5.00	4.30
CS1206150ML□-□□□	15±20%	29.2	41	4.60	4.00
CS1206180ML□-□□□	18±20%	35.9	51	3.90	4.00
CS1206220ML□-□□□	22±20%	38.2	54	3.70	3.80
CS1206270ML□-□□□	27±20%	43.8	62	3.30	3.00
CS1206330ML□-□□□	33±20%	67.9	95	2.80	2.50
CS1206390ML□-□□□	39±20%	70.9	100	2.70	2.40
CS1206470ML□-□□□	47±20%	103.0	135	2.50	2.20
CS1206560ML□-□□□	56±20%	111.0	145	2.20	2.00
CS1206680ML□-□□□	68±20%	124.0	160	2.10	2.00
CS1206820ML□-□□□	82±20%	142.0	185	1.90	1.70
CS1206101ML□-□□□	100±20%	180.0	235	1.70	1.50
CS1206121KL□-□□□	120±10%	201.0	260	1.65	1.40
CS1206151KL□-□□□	150±10%	247.0	320	1.55	1.30
CS1206181KL□-□□□	180±10%	272.0	350	1.40	1.20
CS1206221KL□-□□□	220±10%	361.0	460	1.30	1.10
CS1206271KL□-□□□	270±10%	404.0	520	1.20	1.00
CS1206331KL□-□□□	330±10%	530.0	690	1.10	0.90
CS1206391KL□-□□□	390±10%	680.0	880	1.00	0.80
CS1206471KL□-□□□	470±10%	766.0	995	0.90	0.70
CS1206561KL□-□□□	560±10%	1002.0	1200	0.80	0.65
CS1206681KL□-□□□	680±10%	1140.0	1360	0.75	0.63
CS1206821KL□-□□□	820±10%	1390.0	1660	0.63	0.50
CS1206102KL□-□□□	1000±10%	1720.0	2050	0.60	0.50

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

4). Irms base on Temp. rise 40℃ typ.

5). Isat base on △L/L0A=25% typ.

6). L Test Condition：1 kHz / 0.1V

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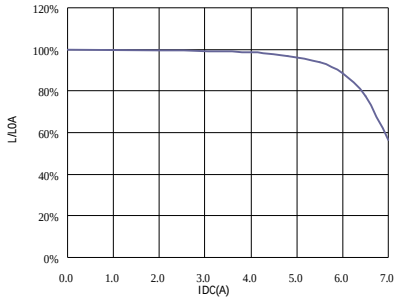
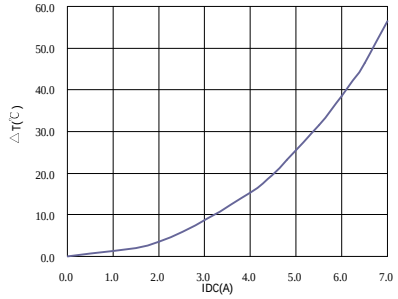
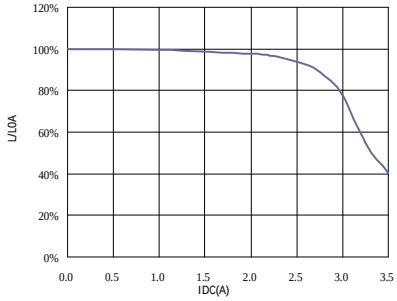
V ． Curve：

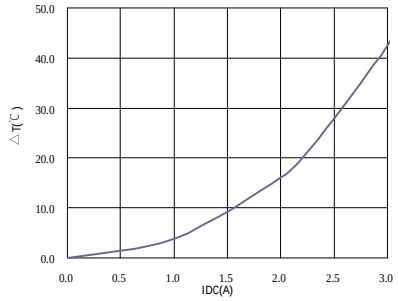
CS1206100ML□



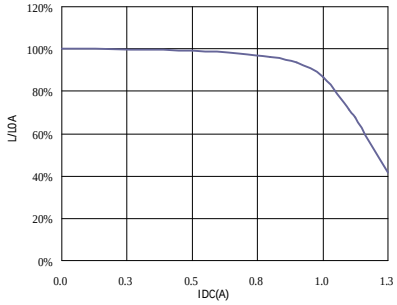


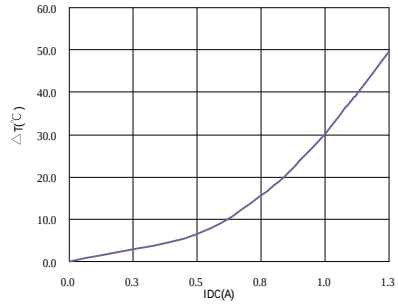
CS1206470ML□



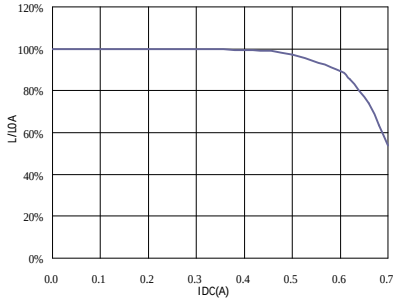


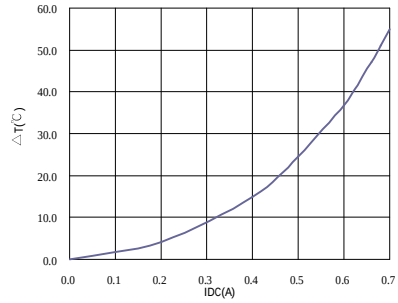
CS1206391KL□





CS1206102KL□





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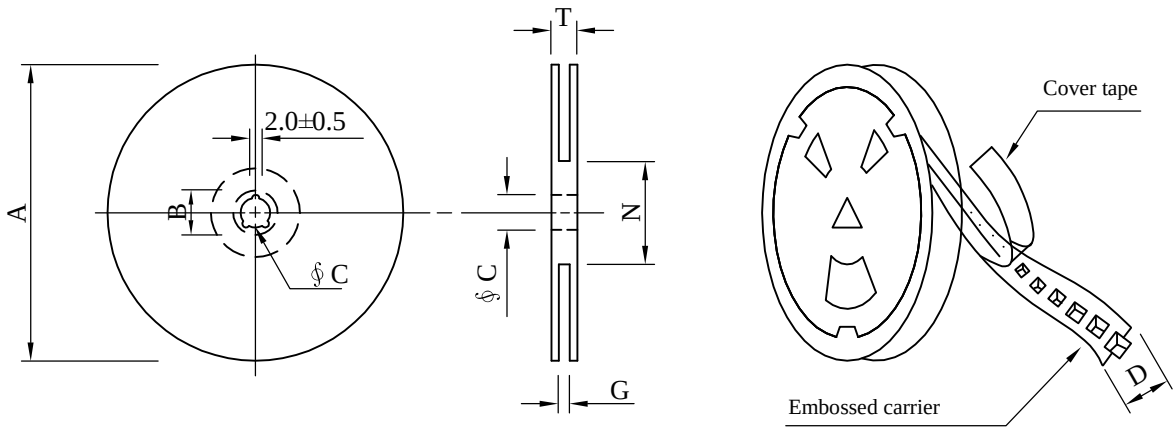
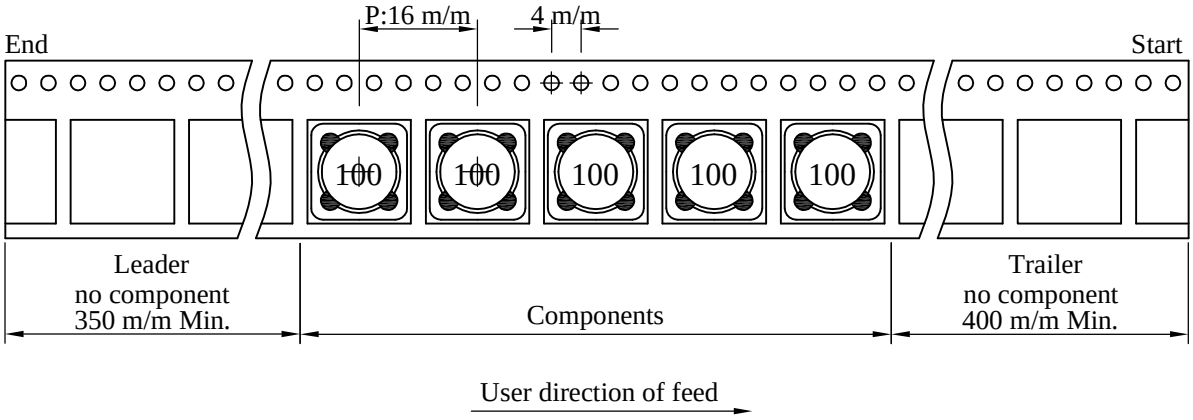
Ⅵ．Packaging information：

(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	2,310	13 - 24	2,400	10.5	38 x 37 x 22

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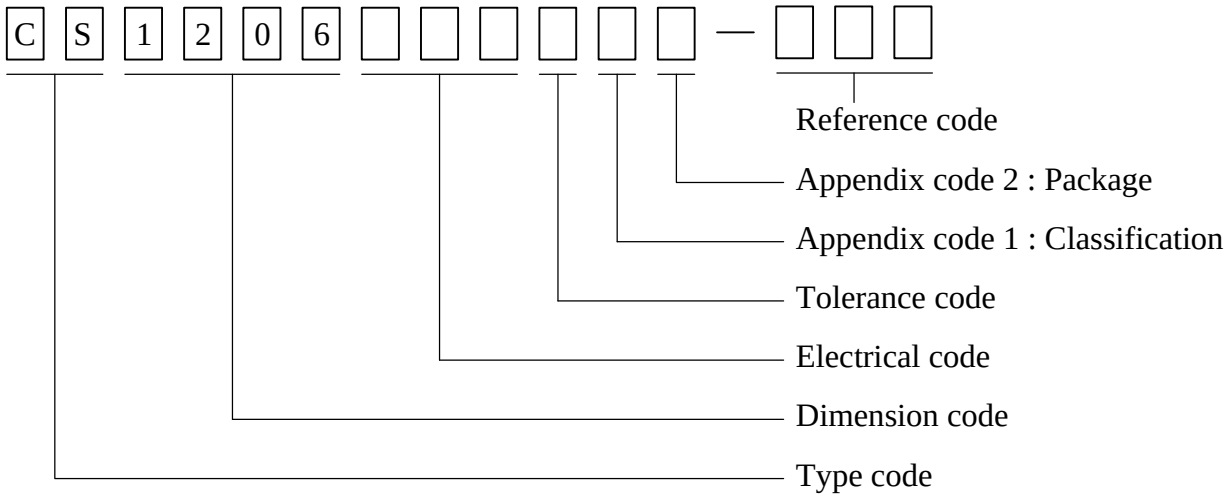
Ⅶ．Drawing number expression：



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 apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
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 ±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 25% 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℃ typ.
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.