SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	CS0703□□□□L□-□□□		
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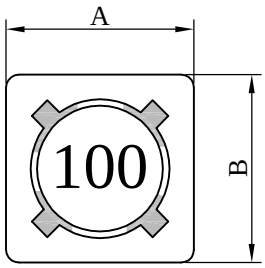
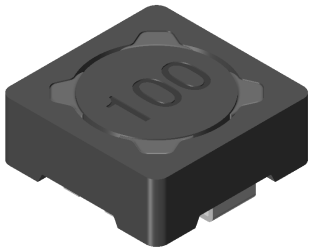
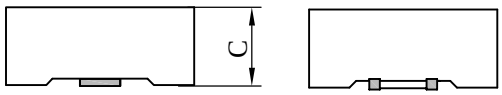
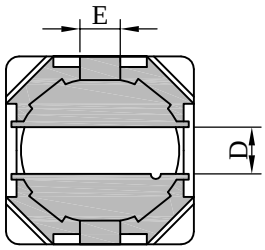
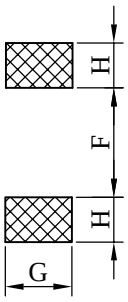
Ⅰ．Configuration and dimensions：











（PCB Pattern）

Unit：m/m

A	B	C	D	E	F	G	H
7.60 max.	7.60 max.	3.55 max.	1.30 typ.	2.60 typ.	3.50 typ.	3.25 ref.	2.50 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Magnetically shielded.

c．Enamelled copper wire：F & H class

d．Product weight： 0.70 g（ref.）

e．Moisture sensitivity Level 1

f．Products comply with RoHS' requirements

g．Halogen free available

Ⅲ．General specification：

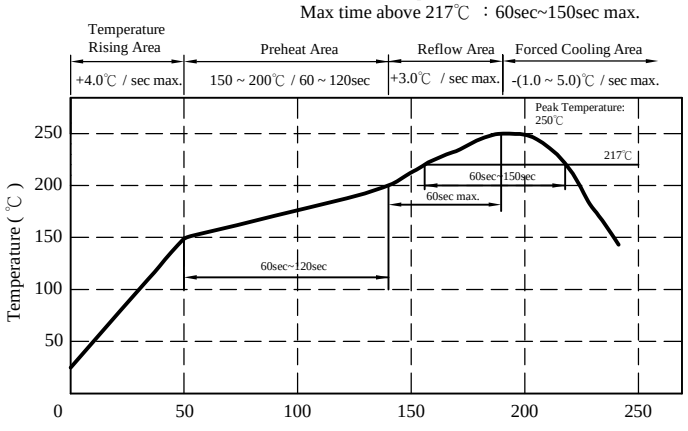
a．Storage temp.：-40℃ ----+125℃

b．Operating temp.：-40℃----+125℃

(Temp. rise included)

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

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



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Ⅳ．Electrical characteristics：

DWG No.	Inductance (uH)	Test Freq. (Hz) / 1V	RDC (Ω) max.	Irms (A)	Isat (A)
CS07031R5YL□-□□□	1.5±30%	1k	0.019	4.50	5.20
CS07032R2ML□-□□□	2.2±20%	1k	0.022	4.10	4.50
CS07033R3ML□-□□□	3.3±20%	1k	0.032	3.30	3.30
CS07034R7ML□-□□□	4.7±20%	1k	0.036	3.00	2.70
CS0703100ML□ -□□□	10.0±20%	1k	0.072	2.10	1.85
CS0703120ML□ -□□□	12.0±20%	1k	0.085	1.90	1.60
CS0703150ML□ -□□□	15.0±20%	1k	0.105	1.60	1.52
CS0703180ML□ -□□□	18.0±20%	1k	0.125	1.40	1.40
CS0703220ML□ -□□□	22.0±20%	1k	0.160	1.20	1.28
CS0703270ML□ -□□□	27.0±20%	1k	0.185	1.10	1.15
CS0703330ML□ -□□□	33.0±20%	1k	0.220	1.00	1.04
CS0703390ML□ -□□□	39.0±20%	1k	0.250	0.95	0.96
CS0703470ML□ -□□□	47.0±20%	1k	0.320	0.85	0.88
CS0703560ML□ -□□□	56.0±20%	1k	0.350	0.78	0.80
CS0703680ML□ -□□□	68.0±20%	1k	0.400	0.72	0.74
CS0703820ML□ -□□□	82.0±20%	1k	0.480	0.63	0.65
CS0703101ML□ -□□□	100.0±20%	1k	0.630	0.54	0.60
CS0703121ML□ -□□□	120.0±20%	1k	0.720	0.53	0.55
CS0703151ML□ -□□□	150.0±20%	1k	0.930	0.47	0.48
CS0703181ML□ -□□□	180.0±20%	1k	1.150	0.43	0.45
CS0703221ML□ -□□□	220.0±20%	1k	1.320	0.40	0.42
CS0703271ML□ -□□□	270.0±20%	1k	1.700	0.30	0.37
CS0703331ML□ -□□□	330.0±20%	1k	2.000	0.33	0.33
CS0703391ML□ -□□□	390.0±20%	1k	2.300	0.30	0.30
CS0703471ML□ -□□□	470.0±20%	1k	2.800	0.26	0.27
CS0703561ML□ -□□□	560.0±20%	1k	3.500	0.23	0.25
CS0703681ML□ -□□□	680.0±20%	1k	4.000	0.21	0.22
CS0703821ML□ -□□□	820.0±20%	1k	5.200	0.19	0.21
CS0703102ML□ -□□□	1000.0±20%	1k	5.800	0.17	0.18

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

4). Irms base on Temp. rise 40℃ max.

5). Isat base on △L/L0A=25% max.

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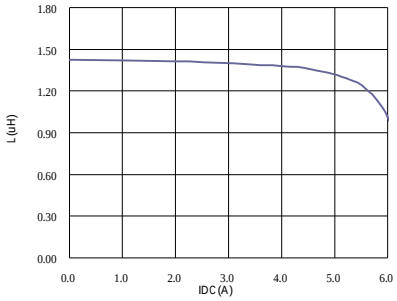
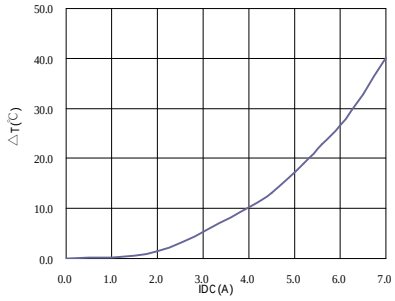
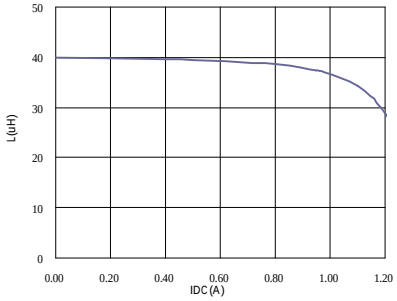
V . Curve：

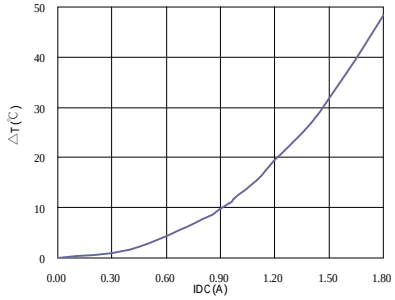
CS07031R5ML□



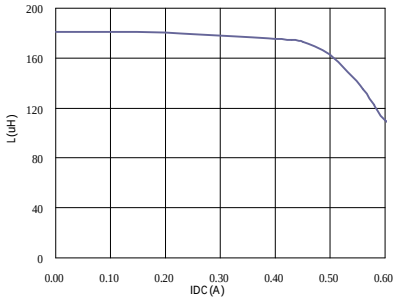


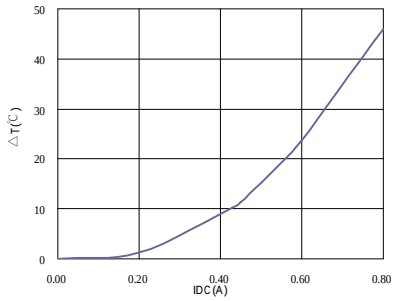
CS0703390ML□



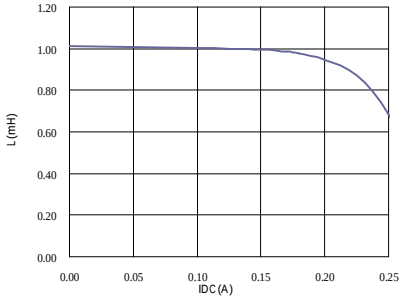


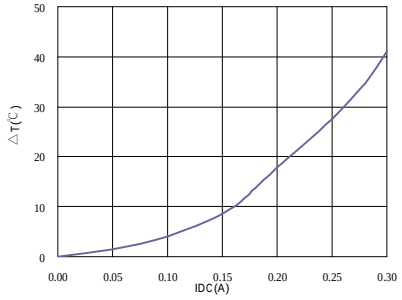
CS0703181ML□





CS0703102ML□





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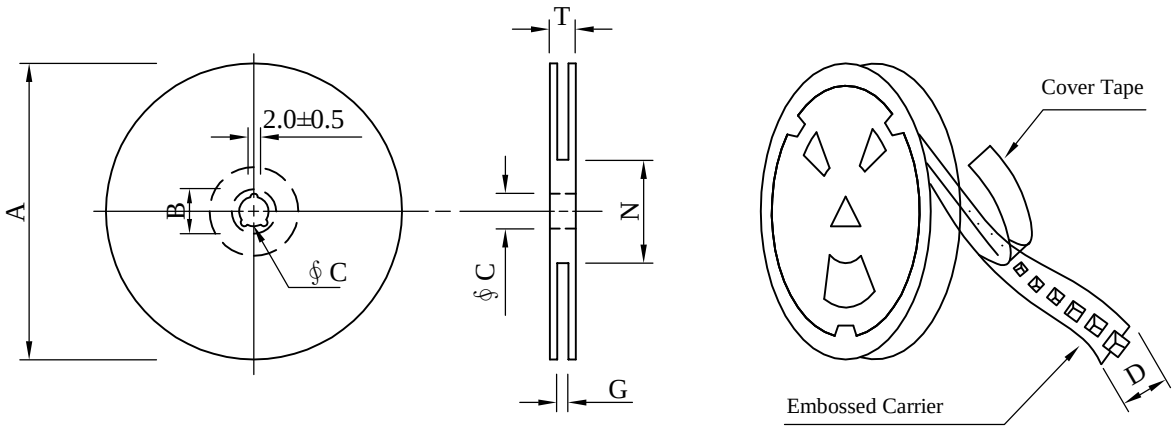
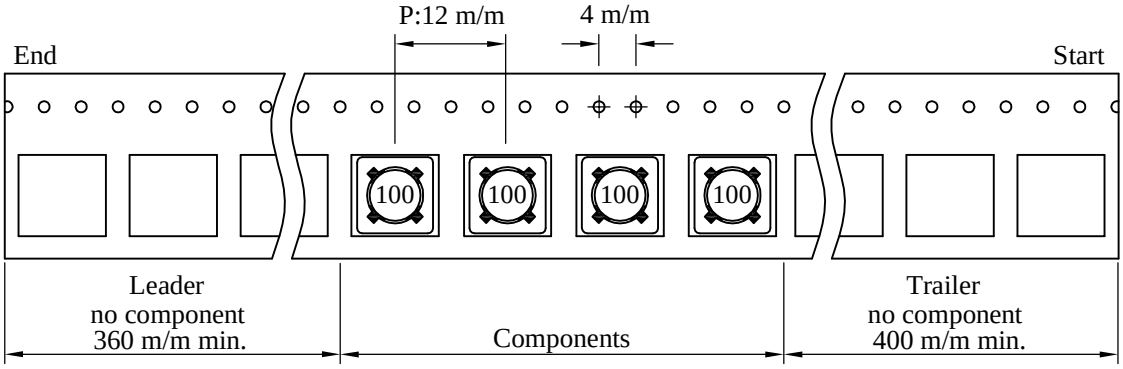
Ⅵ．Packaging information：

(1) Configuration



※Carrier Tape Width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18^{+0}	50^{-0}	22.4

(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	1,500	1,360	13 - 16	9,000	9.4	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 ±20%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +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 ±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：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 ±20%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 second. 2.Saturation current	Inductance shall not drop more than 25% 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 ±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 time (Every side of sample 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.