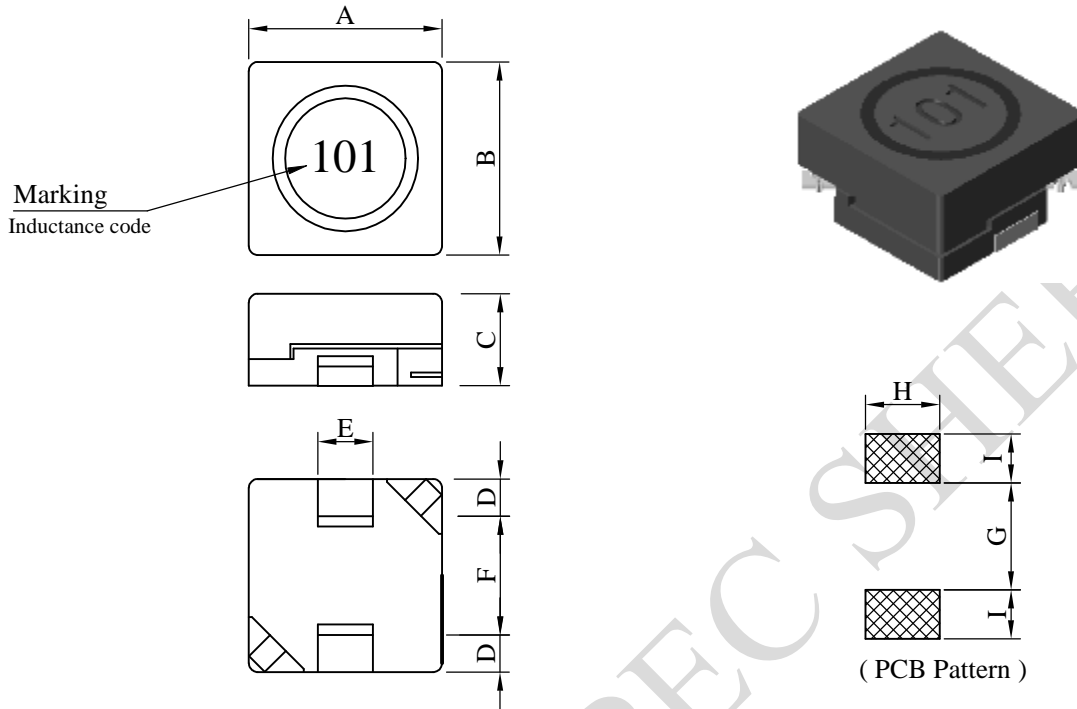


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0603□□□□L□-□□□		
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I . Configuration and dimensions :



Unit : m/m

A	B	C	D	E	F	G	H	I
6.50 ±0.3	6.50 ±0.3	3.10 ±0.3	1.25 ±0.3	1.85 ±0.2	4.00 typ.	3.60 ref.	2.50 ref.	1.65 ref.

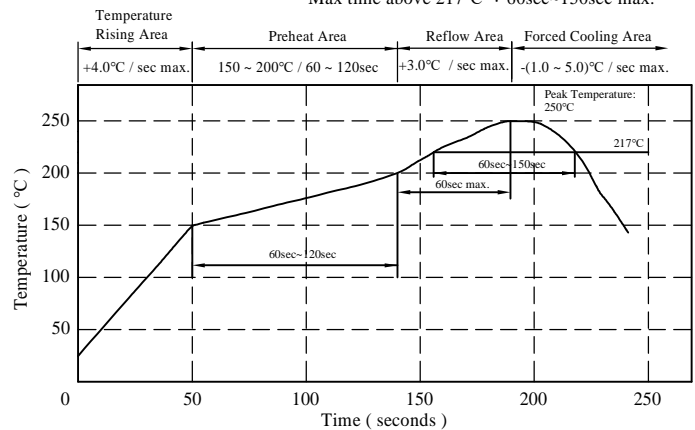
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 0.41 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free

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 : 250°C.10 secs.

Peak Temp : 250°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)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
SS06031R5ML□-□□□	1.5±20%	1k	0.032	2.20
SS06032R5ML□-□□□	2.5±20%	1k	0.040	2.00
SS06033R3ML□-□□□	3.3±20%	1k	0.055	1.80
SS06034R7ML□-□□□	4.7±20%	1k	0.070	1.60
SS06036R8ML□-□□□	6.8±20%	1k	0.100	1.20
SS0603100ML□-□□□	10.0±20%	1k	0.120	1.10
SS0603150ML□-□□□	15.0±20%	1k	0.180	0.90
SS0603220ML□-□□□	22.0±20%	1k	0.270	0.70
SS0603330KL□-□□□	33.0±10%	1k	0.430	0.60
SS0603470KL□-□□□	47.0±10%	1k	0.550	0.50
SS0603680KL□-□□□	68.0±10%	1k	0.900	0.40
SS0603101KL□-□□□	100.0±10%	1k	1.500	0.30
SS0603151KL□-□□□	150.0±10%	1k	1.900	0.25
SS0603221KL□-□□□	220.0±10%	1k	2.700	0.20
SS0603331KL□-□□□	330.0±10%	1k	4.200	0.18
SS0603471KL□-□□□	470.0±10%	1k	6.700	0.15
SS0603681KL□-□□□	680.0±10%	1k	10.500	0.12
SS0603102KL□-□□□	1000.0±10%	1k	14.000	0.10

- 1). Electrical specifications at 25°C
- 2). IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.

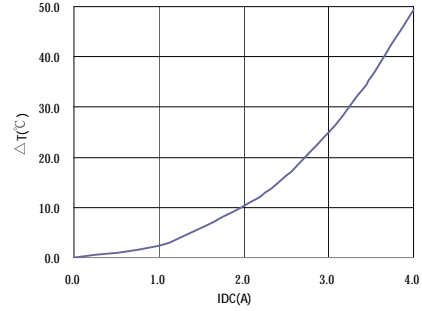
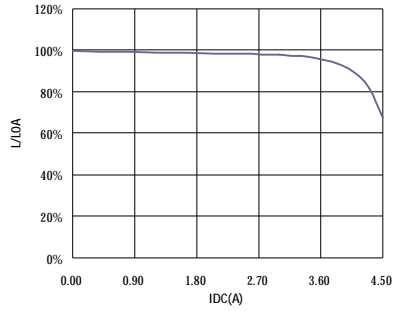
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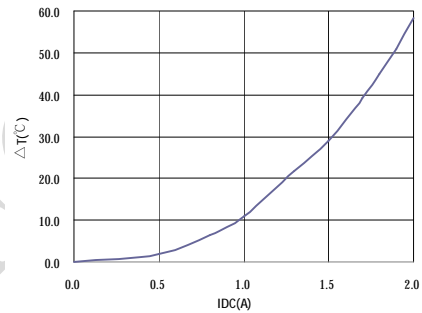
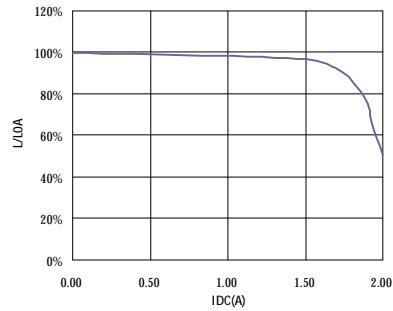
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V . Curve :

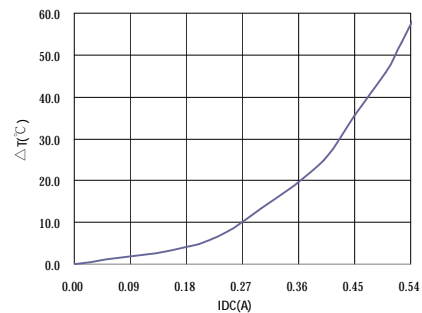
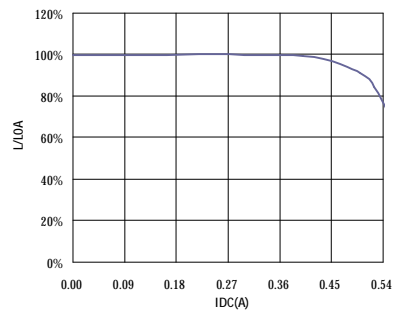
SS06031R5ML□



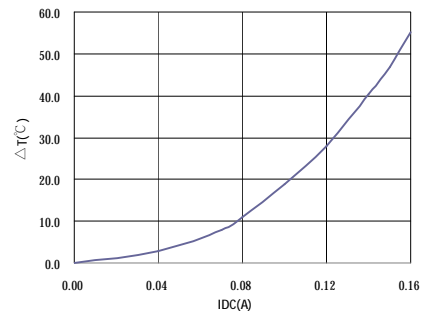
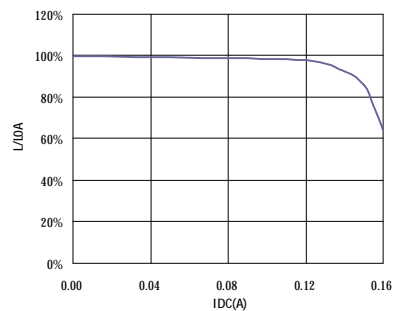
SS0603100ML□



SS0603101KL□



SS0603102KL□



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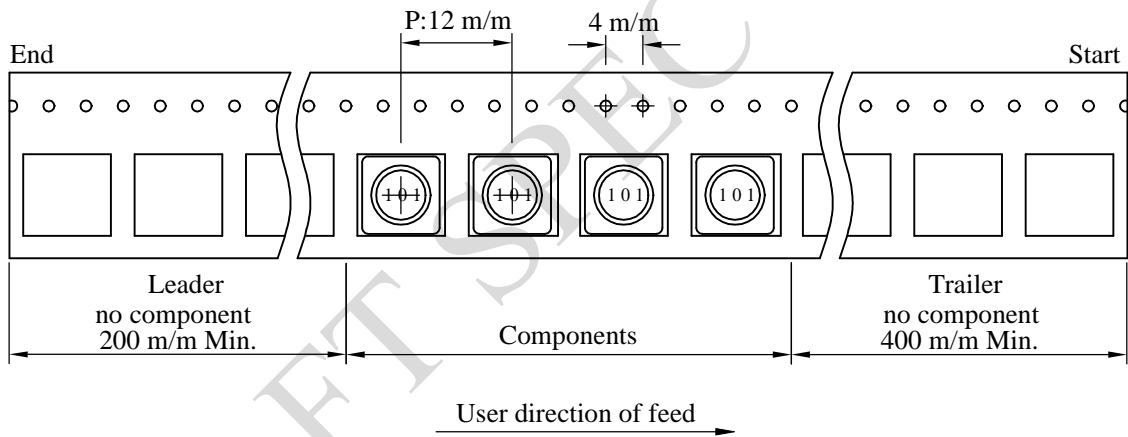
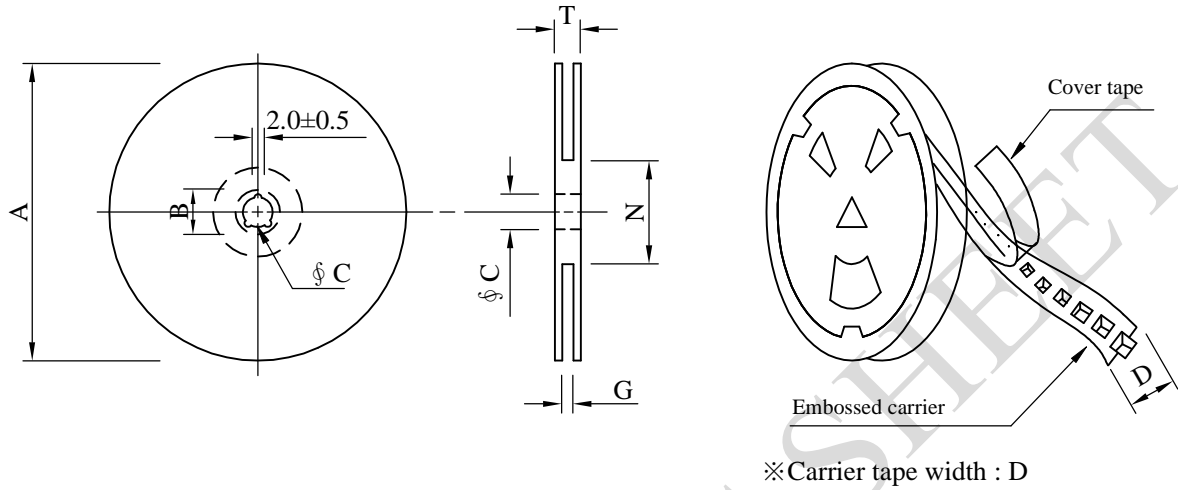
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VI . Packaging information :

(1) Configuration



(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. (g)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
B	1,000	850	13 - 16	6,000	6.4	38 x 37 x 22

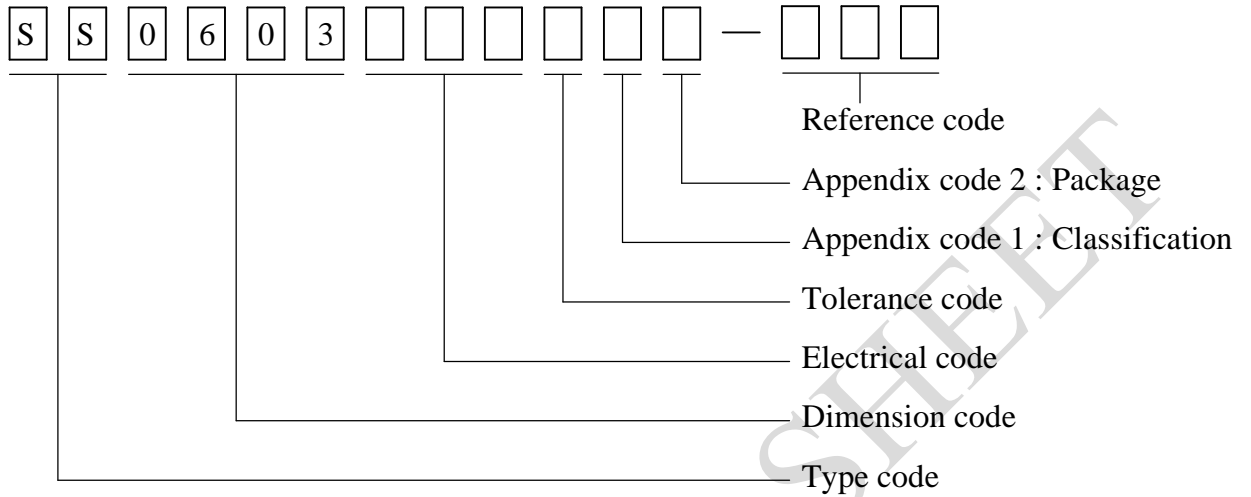
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VII . Drawing number expression :



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	1,000 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°C 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°C ~ +125°C 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 °C 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°C(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 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°C. 2.Time (temp.≥ 217°C) : 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 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°C max.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5°C / 16Hours±30 min. 2.Peak temperature : 240±5°C 3.Time (temp.≥ 217°C) : 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°C~125°C 2.Room temperature : 25°C.	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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IX . Change history :

DATE/REV.	DISCRIPTION	DRAWN	CHECKED	APPROVED
20130524-A	1. Modify the specification form 2. Modify the operateure temperature : From -40°C~+105°C change to -40°C~+125°C (Temp. rise inculded) 3. Change the dimensions E : 1.60±0.20→1.85±0.20	Miz Hsieh	Nick Chen	Nick Chen
20140624-B	Add the current curve			
20150901-C	Modify the Reliability test and the Package weight			
20170317-D	1. Add Change history and Drawing number expression 2. Change the current curve format	Miz Hsieh	Nick Chen	Nick Chen
20190319-E	1. Change D/F/G/I dimensions 2. Modify the first part of 2D drawings	Xiao Hu	Weini	Lock

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