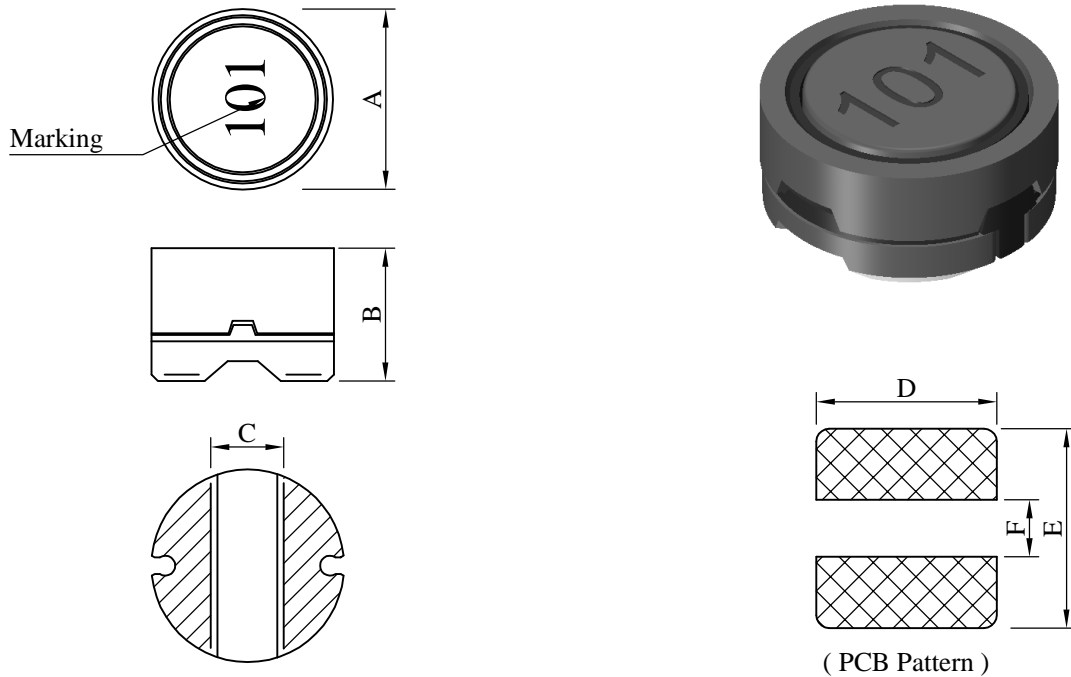


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0704□□□□L□-□□□		
		REV.	20151119-C	PAGE	1

I . Configuration and dimensions :



Unit : m/m

A	B	C	D	E	F
7.50 ±0.3	4.00 ±0.3	2.60 typ.	8.00 ref.	7.80 ref.	2.40 ref.

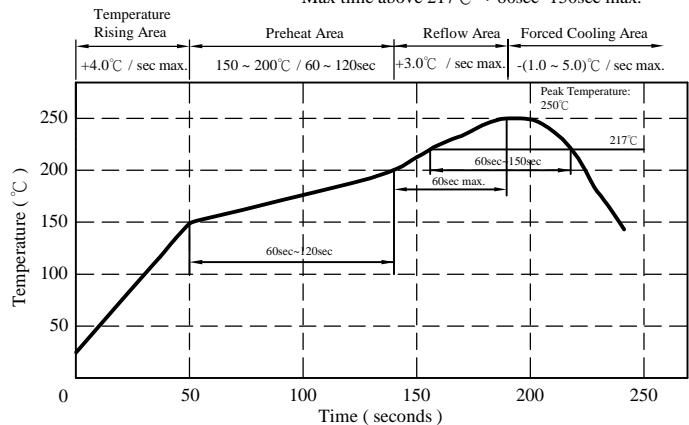
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 0.75 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 : 250°C.10 secs.

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



AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0704□□□□L□-□□□		
		REV.	20151119-C	PAGE	2

IV . Electrical characteristics :

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (mΩ) max.	I _{rms} (A) max.	I _{sat} (A) typ.
			L (0.1V)	Q				
SS0704100YL□-□□□	10.0±15%	30	100k	2.52M	25.0	65	1.70	1.90
SS0704120YL□-□□□	12.0±15%	30	100k	2.52M	22.0	70	1.60	1.80
SS0704150YL□-□□□	15.0±15%	30	100k	2.52M	20.0	95	1.40	1.60
SS0704180YL□-□□□	18.0±15%	30	100k	2.52M	18.0	105	1.30	1.40
SS0704220YL□-□□□	22.0±15%	28	100k	2.52M	16.0	136	1.20	1.30
SS0704270YL□-□□□	27.0±15%	25	100k	2.52M	14.0	165	1.10	1.25
SS0704330KL□-□□□	33.0±10%	25	100k	2.52M	13.0	180	1.05	1.15
SS0704390KL□-□□□	39.0±10%	25	100k	2.52M	12.0	200	0.92	1.00
SS0704470KL□-□□□	47.0±10%	25	100k	2.52M	11.0	260	0.80	0.90
SS0704560KL□-□□□	56.0±10%	25	100k	2.52M	10.0	280	0.70	0.72
SS0704680KL□-□□□	68.0±10%	25	100k	2.52M	9.0	350	0.65	0.68
SS0704820KL□-□□□	82.0±10%	20	100k	2.52M	8.0	450	0.62	0.65
SS0704101KL□-□□□	100.0±10%	40	100k	796k	7.5	560	0.55	0.62
SS0704121KL□-□□□	120.0±10%	35	100k	796k	7.0	670	0.50	0.58
SS0704151KL□-□□□	150.0±10%	40	100k	796k	6.5	800	0.46	0.54
SS0704181KL□-□□□	180.0±10%	50	100k	796k	6.0	1150	0.40	0.45
SS0704221KL□-□□□	220.0±10%	45	100k	796k	5.0	1250	0.36	0.40
SS0704271KL□-□□□	270.0±10%	40	100k	796k	4.5	1400	0.32	0.35

- 1). □: Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). I_{rms} base on Temp. rise 30°C max.
- 5). I_{sat} base on ΔL/L0A=10% typ.

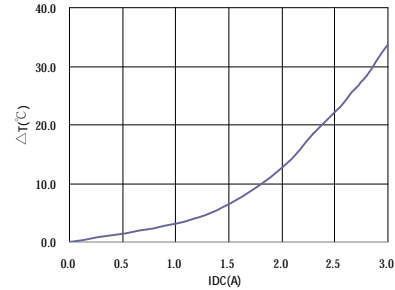
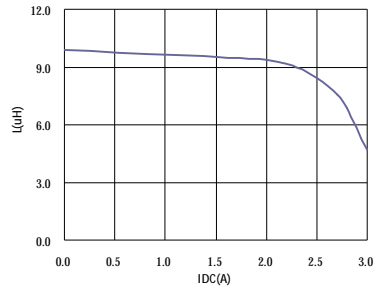
SPECIFICATION FOR APPROVAL

REF. :

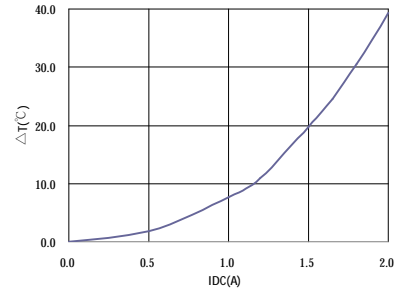
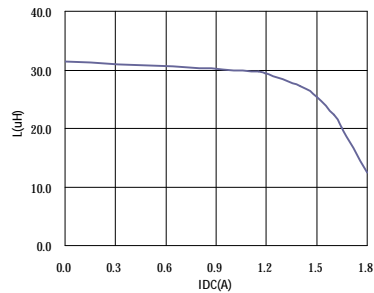
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0704□□□□L□-□□□		
		REV.	20151119-C	PAGE	3

V . Curve :

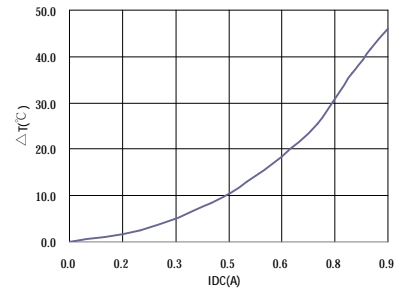
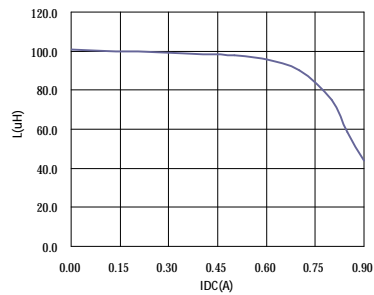
SS0704100YL□



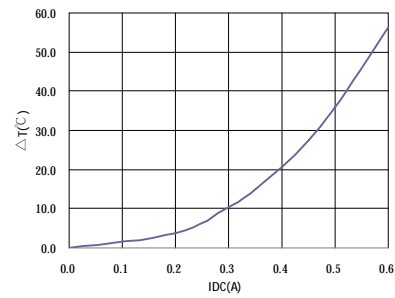
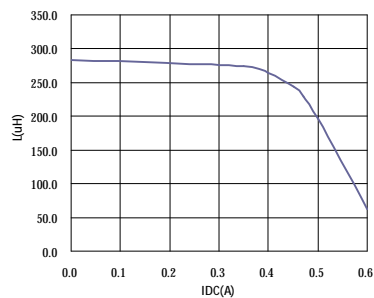
SS0704330KL□



SS0704101KL□



SS0704271KL□



AR-001C

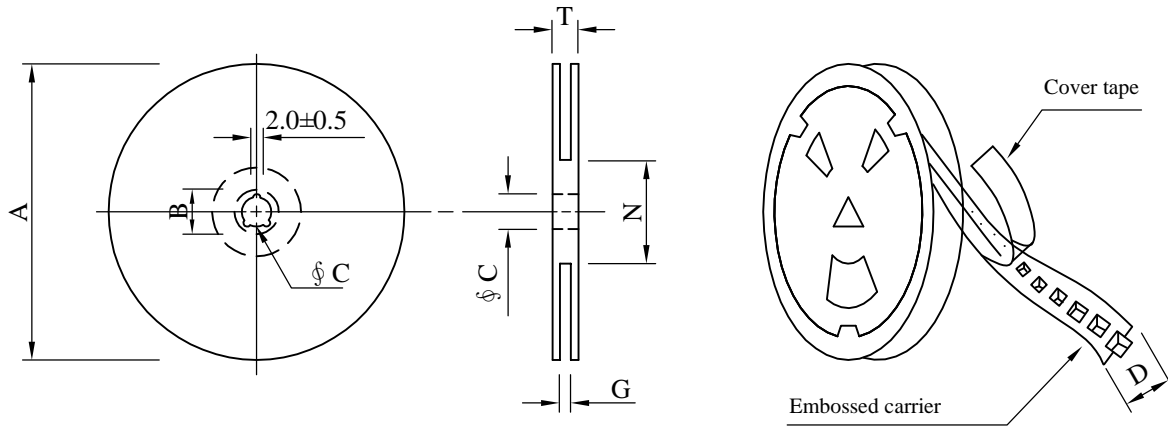
SPECIFICATION FOR APPROVAL

REF. :

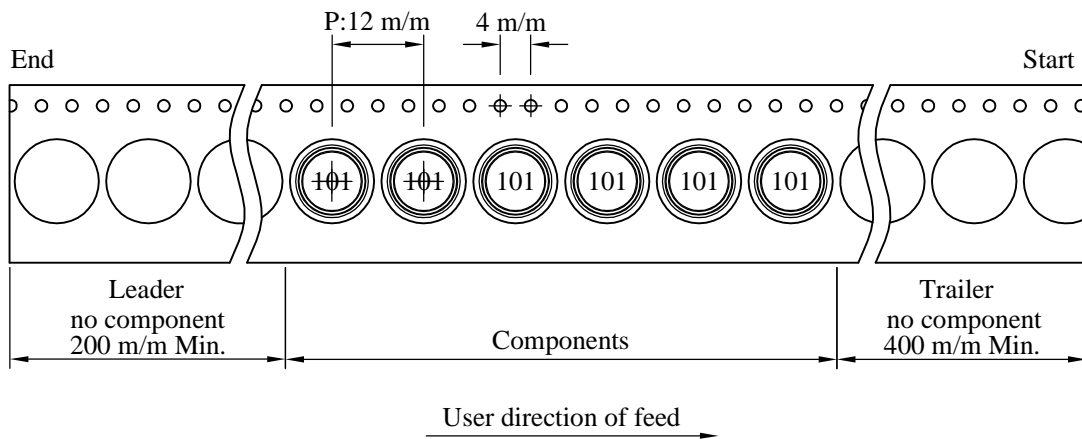
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0704□□□□L□-□□□		
		REV.	20151119-C	PAGE	4

VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(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	1,000	1170	13 - 16	6,000	8.3	38 x 37 x 22

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0704□□□□L□-□□□		
		REV.	20151119-C	PAGE	5

VII . 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 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 °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 apperance. 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 : 250±5°C. 2.Time (temp. ≥ 217°C) : 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 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 30°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 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°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 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.

AR-001C



千如電子集團
ABC ELECTRONICS GROUP