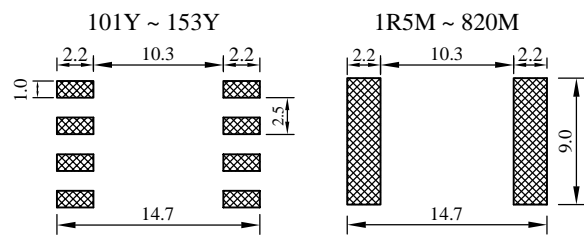
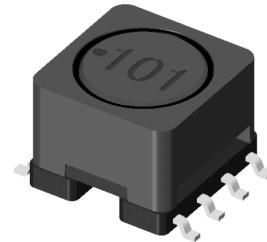
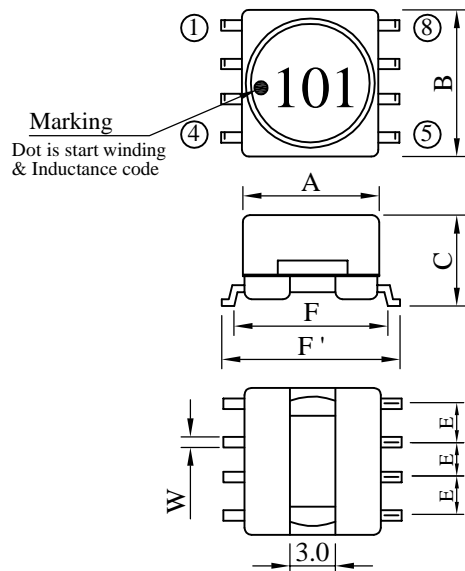


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□		
		REV.	20151119-D	PAGE	1

I . Configuration and dimensions :

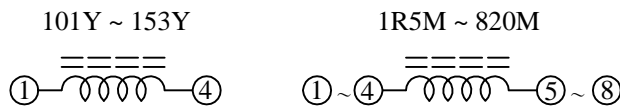


(PCB Pattern)

Unit : m/m

A	B	C	E	F	F'	W
9.50 ±0.3	10.50 max.	7.50 ±0.3	2.50 ±0.3	11.00 ±0.5	12.70 ±0.8	0.60 typ.

II . Schematic diagram :



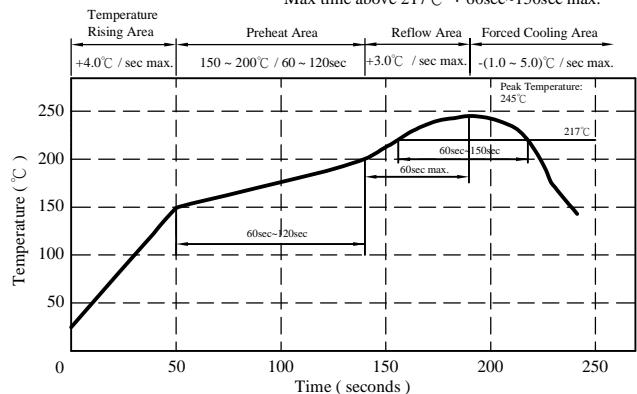
III . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 2.40 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

IV . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
 (Temp. rise included)
- c . Resistance to solder heat : 245°C.10 secs.

Peak Temp : 245°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.	SS0908□□□□L□-□□□		
		REV.	20151119-D	PAGE	2

V . Electrical characteristics :

DWG No.	Inductance (μ H)	Q nom.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
SS09081R5ML□-□□□	1.50±20%	20	1k	7.960M	65.00	0.014	5600
SS09082R7ML□-□□□	2.70±20%	20	1k	7.960M	50.00	0.019	4800
SS09083R9ML□-□□□	3.90±20%	20	1k	7.960M	35.00	0.021	4400
SS09085R6ML□-□□□	5.60±20%	18	1k	7.960M	25.00	0.027	3800
SS09087R5ML□-□□□	7.50±20%	18	1k	7.960M	15.00	0.032	3400
SS0908100ML□-□□□	10.00±20%	33	1k	2.520M	11.00	0.040	3000
SS0908120ML□-□□□	12.00±20%	40	1k	2.520M	11.00	0.050	2500
SS0908150ML□-□□□	15.00±20%	45	1k	2.520M	8.50	0.065	2200
SS0908180ML□-□□□	18.00±20%	40	1k	2.520M	8.50	0.075	2000
SS0908220ML□-□□□	22.00±20%	35	1k	2.520M	6.00	0.080	1900
SS0908270ML□-□□□	27.00±20%	45	1k	2.520M	6.00	0.090	1800
SS0908330ML□-□□□	33.00±20%	40	1k	2.520M	5.00	0.100	1700
SS0908390ML□-□□□	39.00±20%	45	1k	2.520M	5.00	0.135	1500
SS0908470ML□-□□□	47.00±20%	40	1k	2.520M	4.00	0.150	1400
SS0908560ML□-□□□	56.00±20%	35	1k	2.520M	3.00	0.165	1350
SS0908680ML□-□□□	68.00±20%	30	1k	2.520M	2.50	0.184	1250
SS0908820ML□-□□□	82.00±20%	30	1k	2.520M	2.40	0.260	1050
SS0908101YL□-□□□	100.00±15%	40	1k	0.796M	6.00	0.280	1000
SS0908121YL□-□□□	120.00±15%	42	1k	0.796M	5.70	0.340	900
SS0908151YL□-□□□	150.00±15%	45	1k	0.796M	4.60	0.450	800
SS0908181YL□-□□□	180.00±15%	35	1k	0.796M	4.20	0.500	700
SS0908221YL□-□□□	220.00±15%	35	1k	0.796M	3.80	0.600	650
SS0908271YL□-□□□	270.00±15%	30	1k	0.796M	3.40	0.700	600
SS0908331YL□-□□□	330.00±15%	30	1k	0.796M	3.00	0.800	550
SS0908391YL□-□□□	390.00±15%	33	1k	0.796M	2.60	1.000	500
SS0908471YL□-□□□	470.00±15%	30	1k	0.796M	2.30	1.150	450
SS0908561YL□-□□□	560.00±15%	35	1k	0.796M	2.20	1.500	380
SS0908681YL□-□□□	680.00±15%	30	1k	0.796M	2.00	1.700	350
SS0908821YL□-□□□	820.00±15%	35	1k	0.796M	1.90	2.200	320
SS0908102YL□-□□□	1000.00±15%	85	1k	0.252M	1.80	2.500	300
SS0908152YL□-□□□	1500.00±15%	120	1k	0.252M	1.30	4.000	250
SS0908222YL□-□□□	2200.00±15%	95	1k	0.252M	1.00	5.000	200
SS0908332YL□-□□□	3300.00±15%	95	1k	0.252M	0.90	8.000	150
SS0908472YL□-□□□	4700.00±15%	90	1k	0.252M	0.80	12.000	120
SS0908682YL□-□□□	6800.00±15%	90	1k	0.252M	0.60	16.500	100
SS0908822YL□-□□□	8200.00±15%	85	1k	0.252M	0.50	24.000	97
SS0908103YL□-□□□	10000.00±15%	110	1k	79.60k	0.50	26.000	95
SS0908153YL□-□□□	15000.00±15%	130	1k	79.60k	0.40	40.000	75

- 1). □: Packaging information : □ Code 4). IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.
 2). "-□□□" : Reference code
 3). Electrical specifications at 25°C

AR-001C



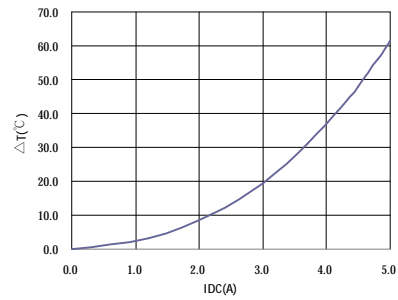
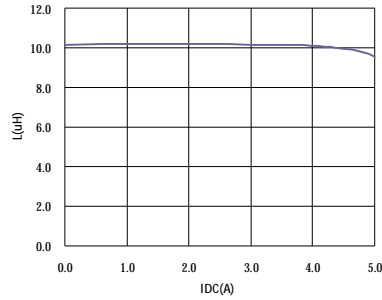
SPECIFICATION FOR APPROVAL

REF. :

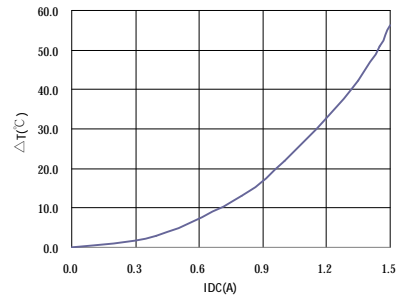
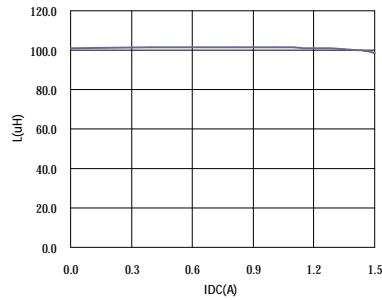
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□		
		REV.	20151119-D	PAGE	3

VI . Curve :

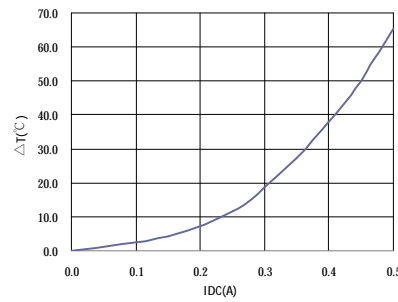
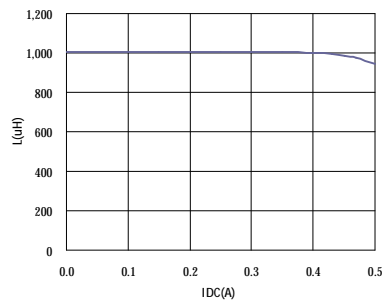
SS0908100ML□



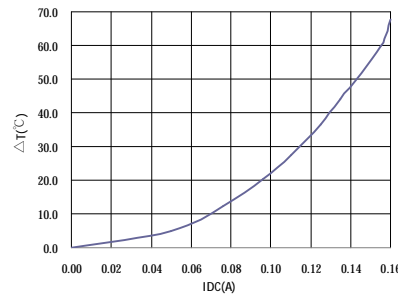
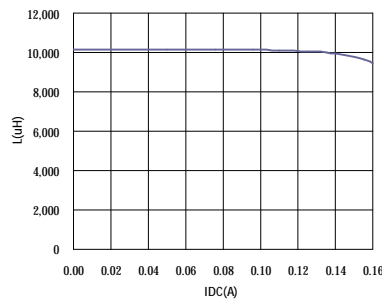
SS0908101YL□



SS0908102YL□



SS0908103YL□



AR-001C

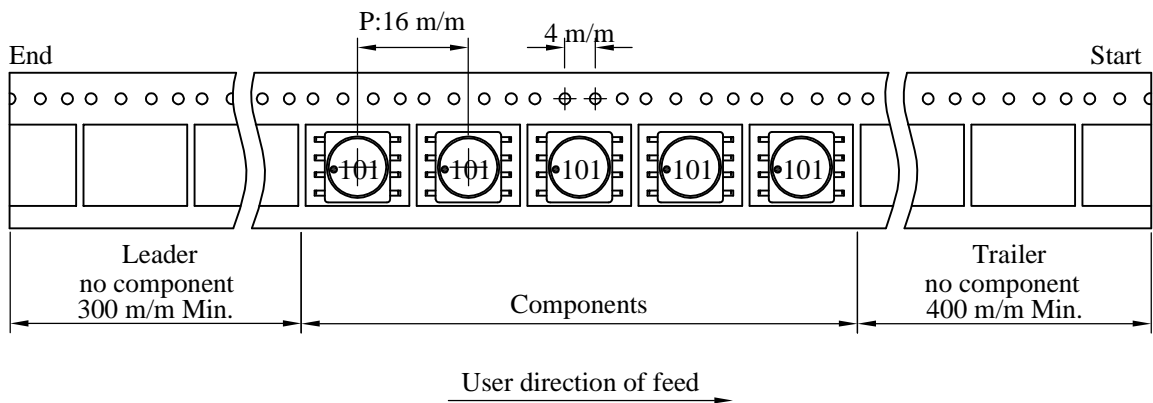
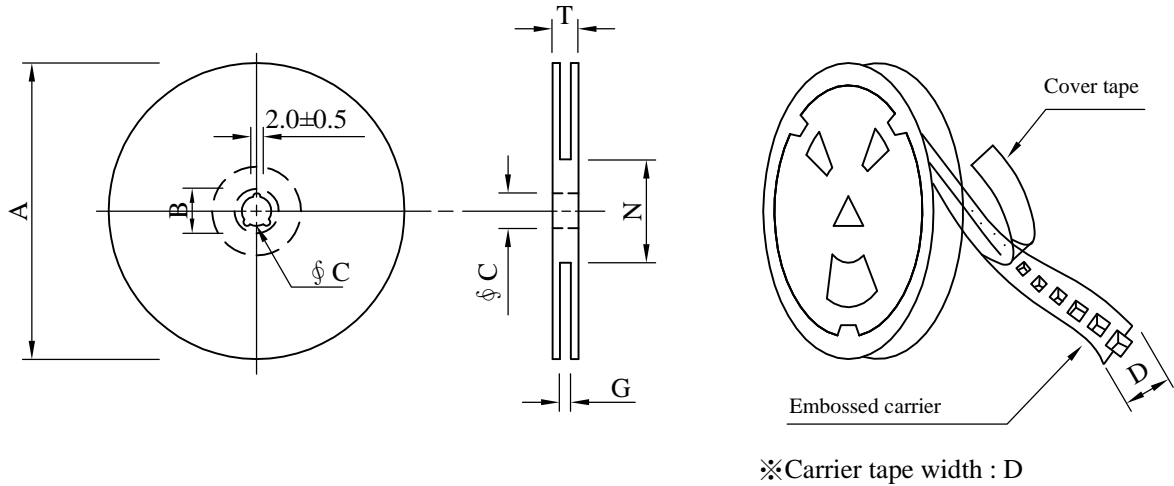
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□		
		REV.	20151119-D	PAGE	4

VII . Packaging information :

(1) Configuration



(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	400	1600	13 - 24	1,600	8.6	38 x 37 x 22

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□		
		REV.	20151119-D	PAGE	5

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 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 apperance. 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 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% 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.

AR-001C