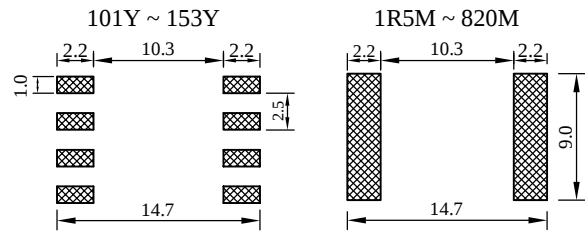
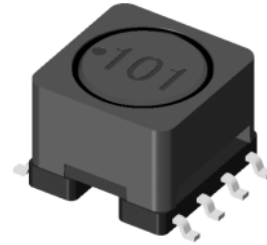
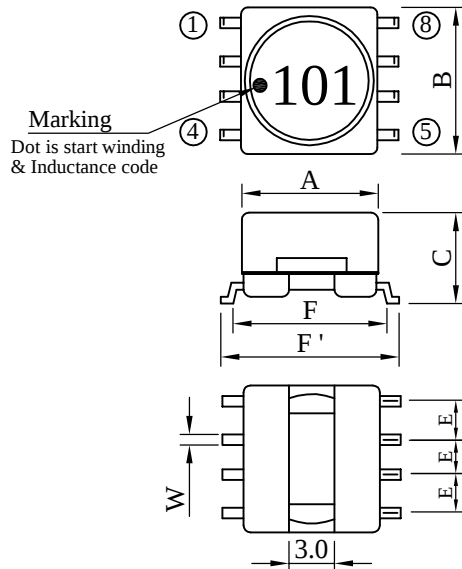


SPECIFICATION

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□			
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I . Configuration and dimensions :

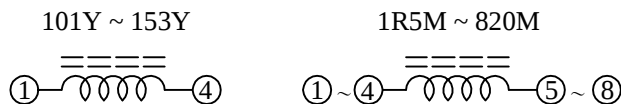


(PCB Pattern)

Unit : mm

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 :

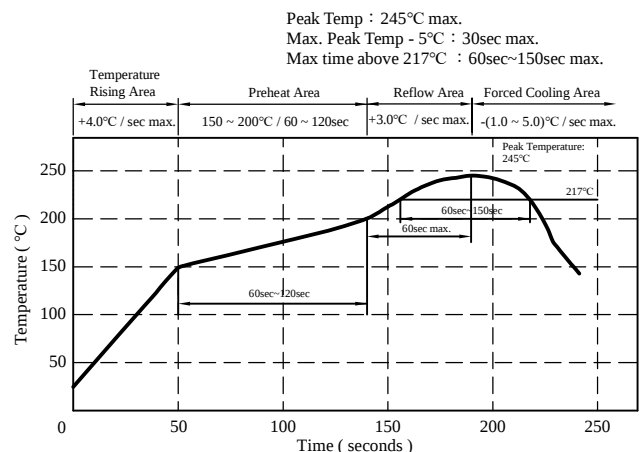


III . Description :

- 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

IV . General specification :

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



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SPECIFICATION

REF. :

PROD.	Shielded SMD Power Inductor	ABC'S DWG NO.	SS0908□□□□L□-□□□			
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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). Electrical specifications at 25°C
- 2). IDC base on Temp. rise 40°C max. & $\Delta L/L0A=10\%$ max.

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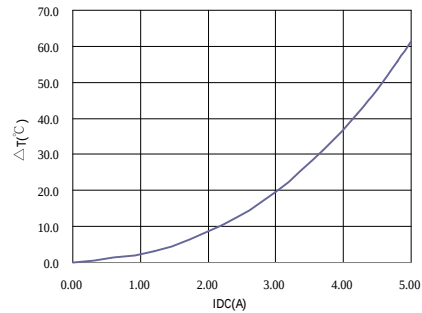
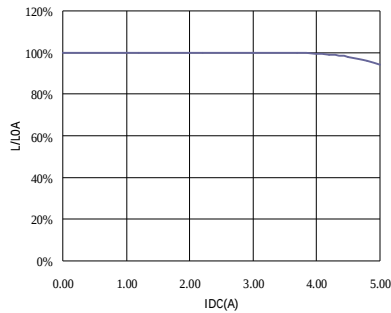
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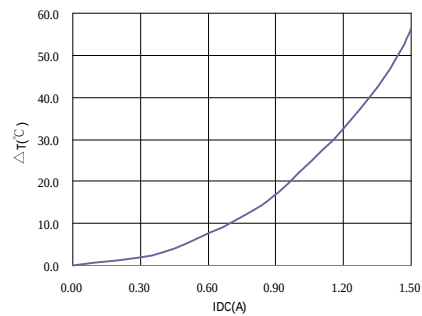
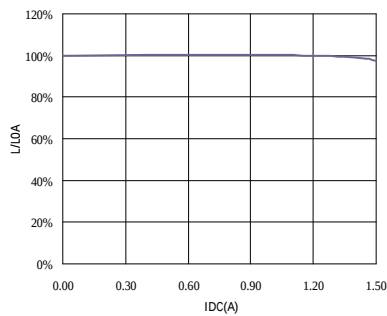
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SS0908□□□□L□-□□□		
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VI . Curve :

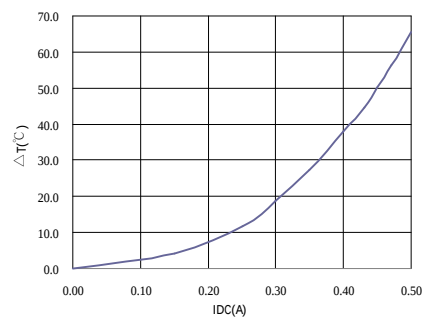
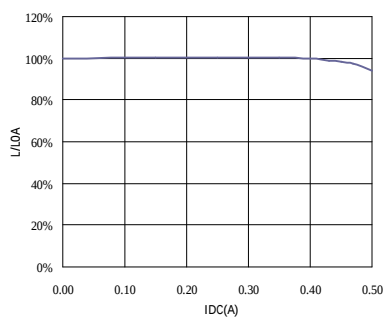
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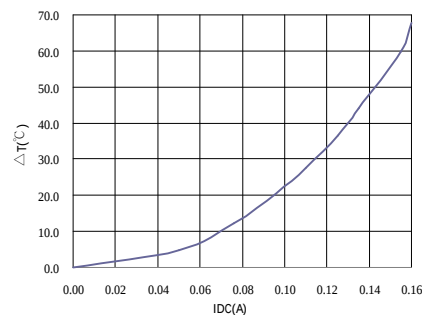
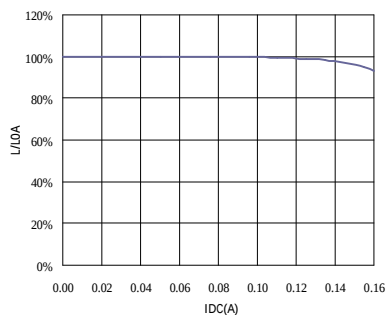
SS0908101YL□



SS0908102YL□



SS0908103YL□



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千如電子集團
ABC-ATEC ELECTRONICS GROUP

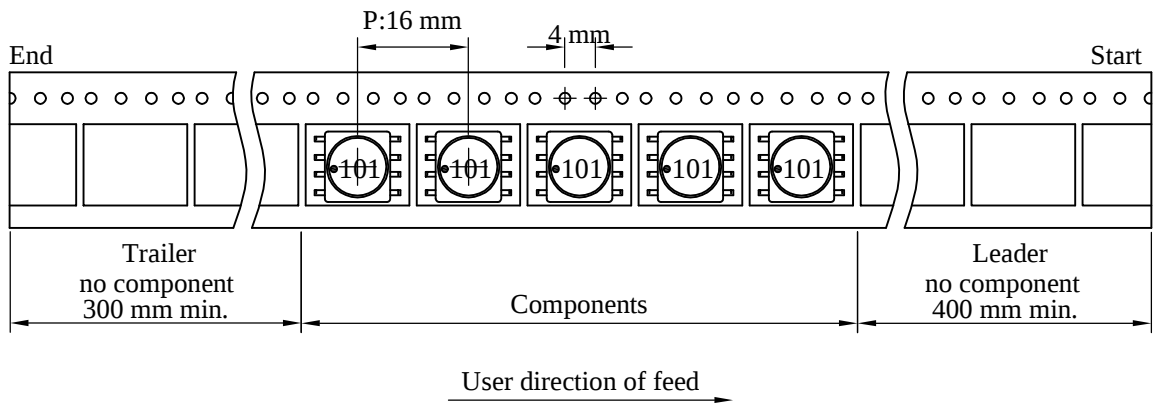
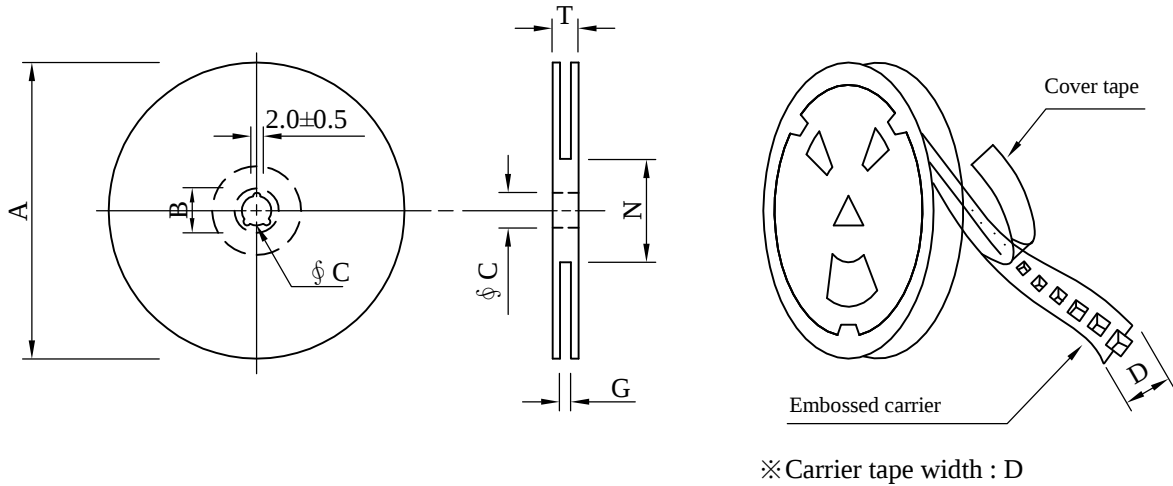
SPECIFICATION

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VII . Packaging information :

(1) Configuration



(2) Dimensions

Unit:mm

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. (g)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
B	400	1,430	13 - 24	1,600	7.0	38 x 37 x 22

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SPECIFICATION

REF. :

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VIII . Drawing number expression :

S

S

0

9

0

8

Reference code

Appendix code 2 : Package

Appendix code 1 : Classification

Tolerance code

Electrical code

Dimension code

Type code

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	400 pcs	

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SPECIFICATION

REF. :

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IX . 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 apperaranace. 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 2.Sweep time : 20 min 3.Acceleration : 5g 4.Direction : X , Y , Z 5.Number of sweep : 6 time/axis		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-STD020	1.Highest temperature : 245±5°C. 2.Time (temp.≥ 217°C) : 60~150 Second. 3.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°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.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.		

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SPECIFICATION

REF. :

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X . Safety notes :

1. The risks of using the product are highly relevant to the field of application and need to be evaluated by both user and manufacturer. If the product is used for a purpose that directly affects personal safety or will cause significant impact or loss to the society , please be sure to contact us first for confirmation.
產品使用的風險與應用領域有高度相關，若您應用於直接影響人身安全系統或對社會會造成重大影響與損失之相關用途，請務必優先與我們聯繫確認。
2. The storage period is less than 12 months. Ensure to follow the storage conditions (Temperature: 5 to 30°C, Humidity: 10 to 60% RH or less). If the storage time is exceeded the limit, the electrodes might be deteriorate of terminal soldering.
儲存期不超過12個月，務必遵守儲存條件（溫度：5至30℃，濕度：10至60%RH以下）。如果超過了儲存時間，端子電極可能會氧化而影響焊接。
3. Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
不要在有氣體腐蝕等條件的地方使用或存放（鹽，酸，鹼等）。
4. Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
安裝時的焊接條件應在規格範圍內。如果超過要求，可能會發生短路，性能下降或壽命縮短。
5. When using, it should try to avoid excessive mechanical impact on the product, such as collision / drop ... and other reasons.
使用時，應盡量避免產品受到過度機械衝擊，如碰撞/掉落...等原因。
6. When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
將已安裝新片的電路板組裝到裝置時，請注意應盡量避免電路板受到組裝變形...等，導致產品受到應力。
7. Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
產品會因通電而自我發熱(溫度上升)，因此在熱影響設計方面，需保留適當公差。
8. Do not expose the products to magnets or magnetic fields.
請勿將產品暴露於磁鐵或是磁場中。
9. If you would like to use this products to performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property, or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.
如果您希望將此產品用於性能和/或質量要求更嚴格的安全性或可靠性，或其失敗、故障或麻煩可能對社會、個人或財產造成嚴重損害，或者您有特殊情況要求超出目錄中規定的範圍或條件，請與我們聯繫。