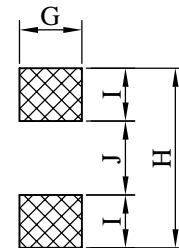
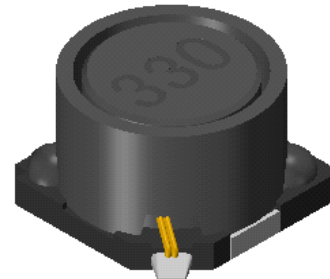
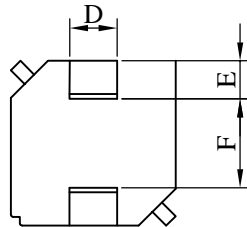
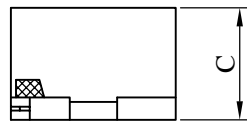
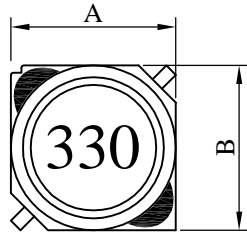


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS7045□□□□L□-□□□		
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

A	B	C	D	E	F	G	H	I	J
7.00 ±0.30	7.00 ±0.30	4.50 ±0.30	2.00 typ.	1.50 typ.	4.00 typ.	2.40 ref.	7.80 ref.	1.80 ref.	4.20 ref.

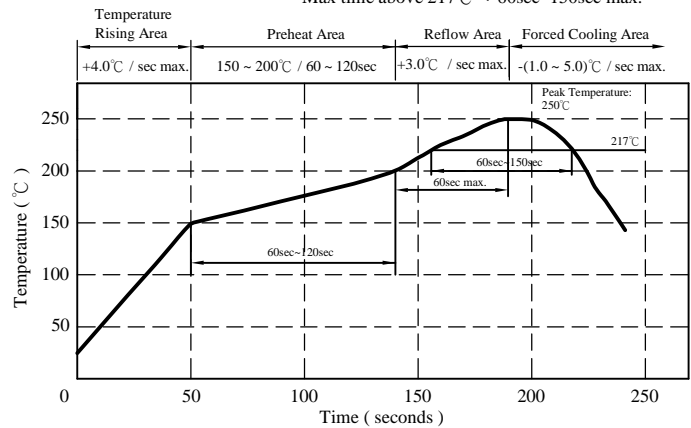
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 0.60g (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.



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SPECIFICATION FOR APPROVAL

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IV . Electrical characteristics :

DWG No.	Inductance (uH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A)	Isat (A)
SS70451R0ML□-□□□	1.0±20%	10	7.96	60	0.020	3.500	4.500
SS70452R2ML□-□□□	2.2±20%	10	7.96	50	0.022	2.800	2.800
SS70453R3ML□-□□□	3.3±20%	12	7.96	45	0.027	2.800	2.600
SS70453R9ML□-□□□	3.9±20%	12	7.96	38	0.030	2.750	2.500
SS70454R7ML□-□□□	4.7±20%	12	7.96	35	0.033	2.600	2.300
SS70455R6ML□-□□□	5.6±20%	12	7.96	35	0.035	2.400	2.200
SS70456R8ML□-□□□	6.8±20%	10	7.96	30	0.036	2.200	2.000
SS70458R2ML□-□□□	8.2±20%	10	7.96	30	0.041	2.100	1.850
SS7045100ML□-□□□	10.0±20%	30	2.52	25	0.042	2.000	1.700
SS7045120ML□-□□□	12.0±20%	27	2.52	23	0.050	1.850	1.700
SS7045150ML□-□□□	15.0±20%	31	2.52	24	0.062	1.600	1.475
SS7045180ML□-□□□	18.0±20%	29	2.52	21	0.070	1.500	1.375
SS7045220ML□-□□□	22.0±20%	26	2.52	18	0.082	1.350	1.000
SS7045270ML□-□□□	27.0±20%	25	2.52	18	0.110	1.250	1.000
SS7045330ML□-□□□	33.0±20%	25	2.52	12	0.115	1.150	0.900
SS7045390ML□-□□□	39.0±20%	26	2.52	13	0.130	1.100	0.800
SS7045470ML□-□□□	47.0±20%	29	2.52	11	0.150	0.950	0.780
SS7045560ML□-□□□	56.0±20%	21	2.52	11	0.200	0.850	0.700
SS7045680ML□-□□□	68.0±20%	22	2.52	10	0.210	0.770	0.600
SS7045820ML□-□□□	82.0±20%	20	2.52	8	0.280	0.700	0.550
SS7045101ML□-□□□	100.0±20%	40	0.796	8	0.300	0.650	0.500
SS7045121ML□-□□□	120.0±20%	30	0.796	7	0.420	0.600	0.500
SS7045151ML□-□□□	150.0±20%	51	0.796	7	0.480	0.530	0.410
SS7045181ML□-□□□	180.0±20%	52	0.796	5	0.660	0.475	0.375
SS7045221ML□-□□□	220.0±20%	44	0.796	5	0.700	0.450	0.360
SS7045271ML□-□□□	270.0±20%	30	0.796	5	0.700	0.425	0.300
SS7045331ML□-□□□	330.0±20%	65	0.796	4	0.730	0.400	0.250
SS7045391ML□-□□□	390.0±20%	27	0.796	5	1.000	0.350	0.230
SS7045471ML□-□□□	470.0±20%	80	0.796	3	1.100	0.320	0.220
SS7045561ML□-□□□	560.0±20%	27	0.796	4	1.600	0.300	0.200
SS7045681ML□-□□□	680.0±20%	65	0.796	3	1.600	0.270	0.200
SS7045821ML□-□□□	820.0±20%	26	0.796	3	2.200	0.260	0.175
SS7045102ML□-□□□	1000.0±20%	90	0.252	3	2.400	0.250	0.150

- | | |
|---|--|
| <p>1). □ : Packaging information : □ Code</p> <p>2). "-□□□" : Reference code</p> <p>3). Electrical specifications at 25°C</p> <p>4). I rms base on Temp. rise 30°C max.</p> | <p>5). Isat base on $\Delta L/L0A=10\%$ typ. (1R0M~221M)</p> <p style="padding-left: 20px;">Isat base on $\Delta L/L0A=25\%$ typ. (271M~102M)</p> <p>6). Inductance test condition 1KHz/0.5V</p> |
|---|--|

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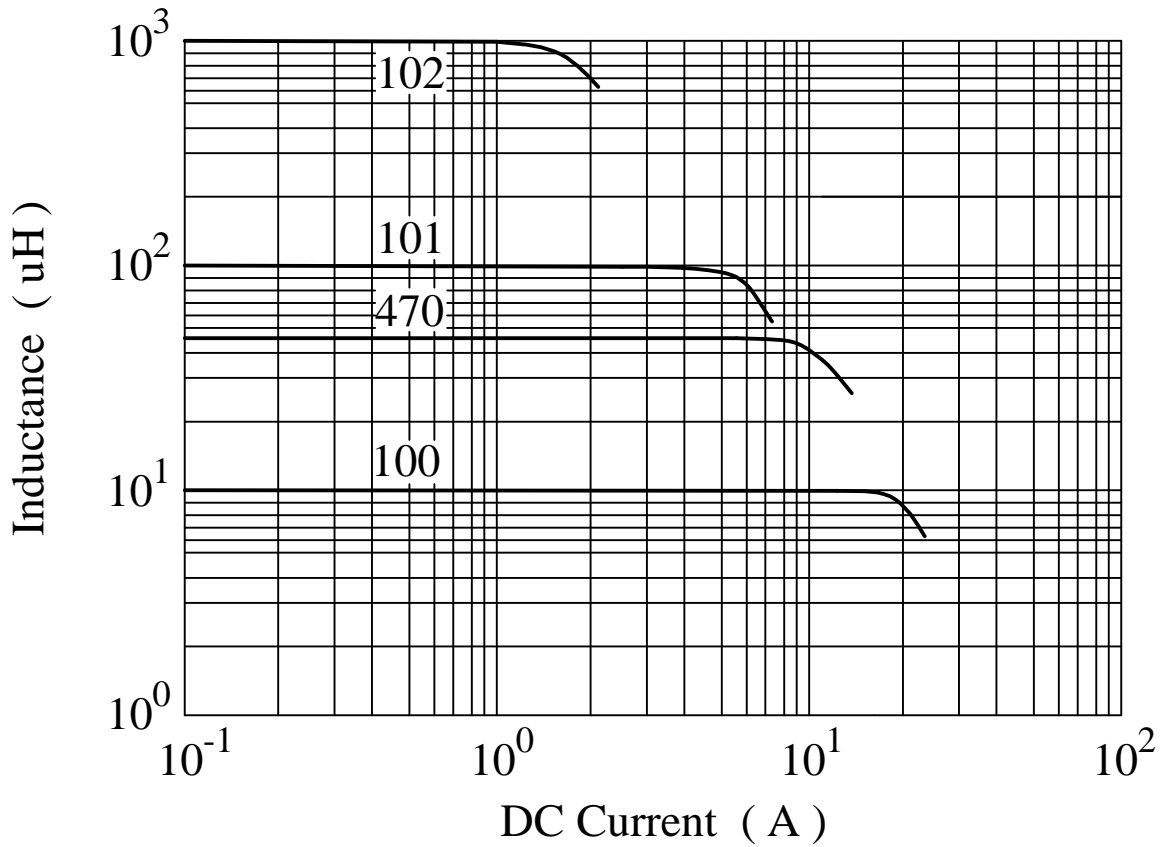


SPECIFICATION FOR APPROVAL

REF. :

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V . Curve :



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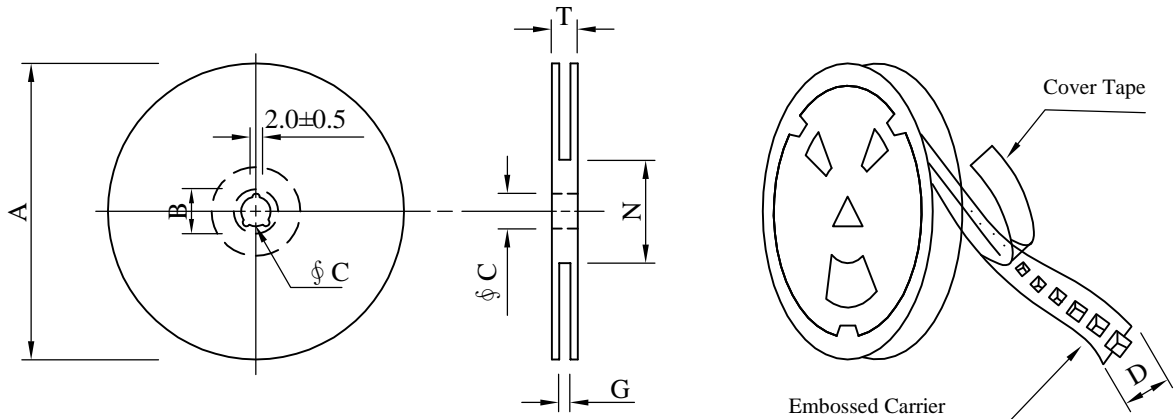
SPECIFICATION FOR APPROVAL

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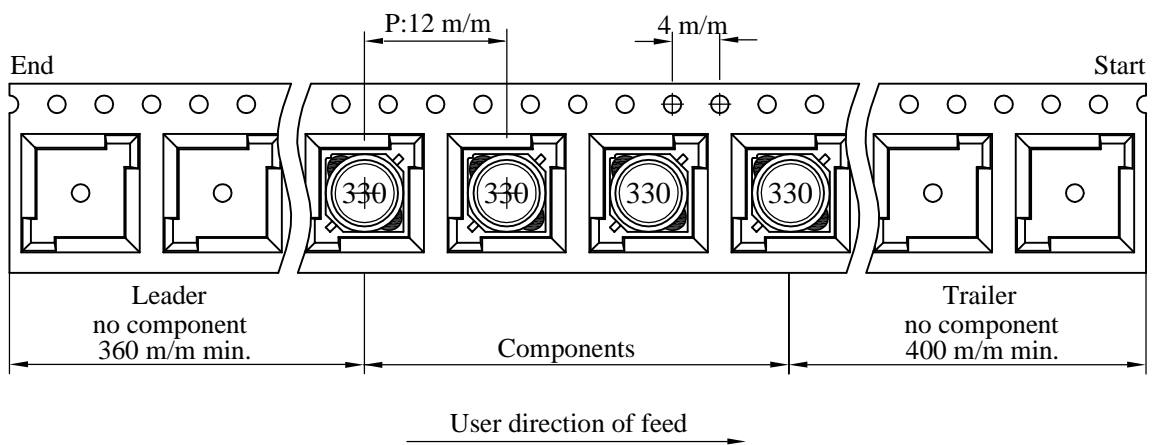
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS7045□□□□L□-□□□		
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VI . Packaging information :

(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	1010	13 - 16	6,000	7.4	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS7045□□□□L□-□□□		
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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°C 2.Time:96 hours.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40°C ~ 125°C 2.Number of cycle:96 cycle 3.Dwell time:30 minutes	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature:85±5 °C 2.Time:96 Hours 3.Humidity: 85±5% RH.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
4.Operational Life	MIL-PRF-27	1.Temperature: 125°C 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
5.Exeternal Visual	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 Method JB-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 and electrical damage. 2.Inductance shall not change more than ±20%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Highest temperature : 250±5°C 2.Time (temp. ≥ 217°C) : 60~150 Second. 3.IR reflow times : 3 times.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
12.Over load	MIL-PRF-27	Apply double as rated current for 5 minutes. (It's not application to some special design)	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
13.Solderability Test	J-STD-002	1.Baking in pre-testing : 155±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.	The terminal shall be at least 95% covered with fresh solder.
14.Electrical Characteriazation	User Spec.	1.Operating temperature : -40°C~125°C 2.Room temperature : 25°C.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DC:500V 2.Time:1minutes	1.During the test no breakdown. 2.The characteristic is normal after test.
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.	1.No case deformation or change in appearance. 2.Inductance shall not change more than ±20%.
17.Terminal Strength Test	JIS-C-6429	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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