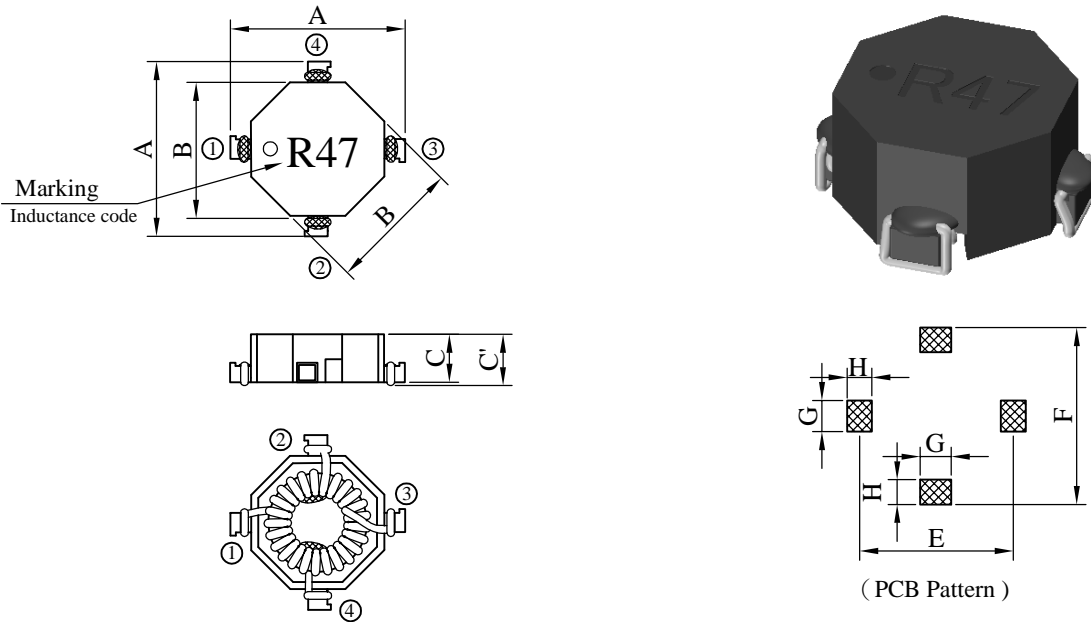


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power inductor	ABC'S DWG NO.	SF1506□□□□L□-□□□		
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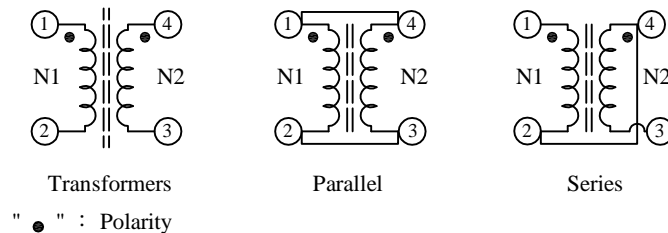
I . Configuration and dimensions :



Unit : m/m

A	B	C	C'	E	F	G	H
14.00 ±0.3	11.20 ±0.3	6.10 ±0.3	7.20 max.	12.50 ref.	15.50 ref.	4.06 ref.	3.05 ref.

II . Schematic diagram :



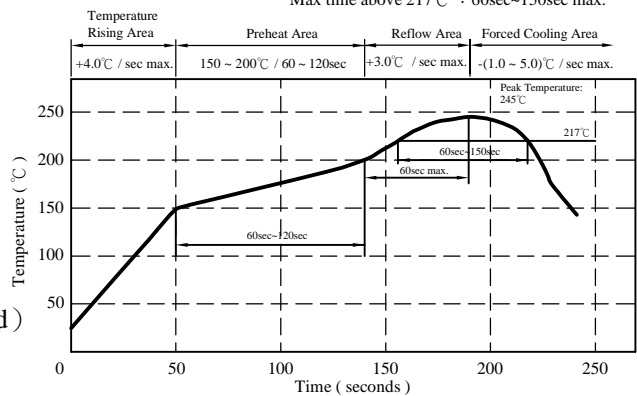
III . Description :

- a . Iron toroidal core construction.
- b . Enamelled copper wire : F · H class
- c . Product weight : 1.30g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

Peak Temp : 245°C max.
Max. Peak Temp -5°C : 30sec max.
Max time above 217°C : 60sec-150sec max.

IV . General specification :

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



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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power inductor	ABC'S DWG NO.	SF1506□□□□L□-□□□		
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V . Electrical characteristics :

DWG No.	Open Circuit Inductance μH		Full Load Current Adc max.		DC Resistance (mΩ) max.	
	Parallel	Series	Parallel	Series	Parallel	Series
SF1506R47YL□-□□□	0.47±30%	1.88±30%	7.90	3.95	5	20
SF1506R68YL□-□□□	0.68±30%	2.72±30%	7.20	3.60	6	24
SF15061R0ML□-□□□	1.00±20%	4.00±20%	5.90	2.95	8	32
SF15062R0ML□-□□□	2.00±20%	8.00±20%	4.60	2.30	14	56
SF15065R0ML□-□□□	5.00±20%	20.00±20%	3.30	1.65	27	108
SF15068R0ML□-□□□	8.00±20%	32.00±20%	3.00	1.50	33	132
SF1506100ML□-□□□	10.00±20%	40.00±20%	2.50	1.25	47	188
SF1506150ML□-□□□	15.00±20%	60.00±20%	2.30	1.15	57	228
SF1506200ML□-□□□	20.00±20%	80.00±20%	1.90	0.95	84	336
SF1506250ML□-□□□	25.00±20%	100.00±20%	1.60	0.80	115	460
SF1506330ML□-□□□	33.00±20%	132.00±20%	1.30	0.65	166	664
SF1506500ML□-□□□	50.00±20%	200.00±20%	1.20	0.60	201	804
SF1506680ML□-□□□	68.00±20%	272.00±20%	1.10	0.55	238	952
SF1506101ML□-□□□	100.00±20%	400.00±20%	0.72	0.36	565	2260
SF1506151ML□-□□□	150.00±20%	600.00±20%	0.64	0.32	696	2784
SF1506201ML□-□□□	200.00±20%	800.00±20%	0.60	0.30	810	3240
SF1506301ML□-□□□	300.00±20%	1200.00±20%	0.54	0.27	1003	4012

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). IDC base on Temp. rise 40°C max.
& ΔL / L0A=35% typ.
- 5). Inductance test freq. : 100KHz / 0.25V

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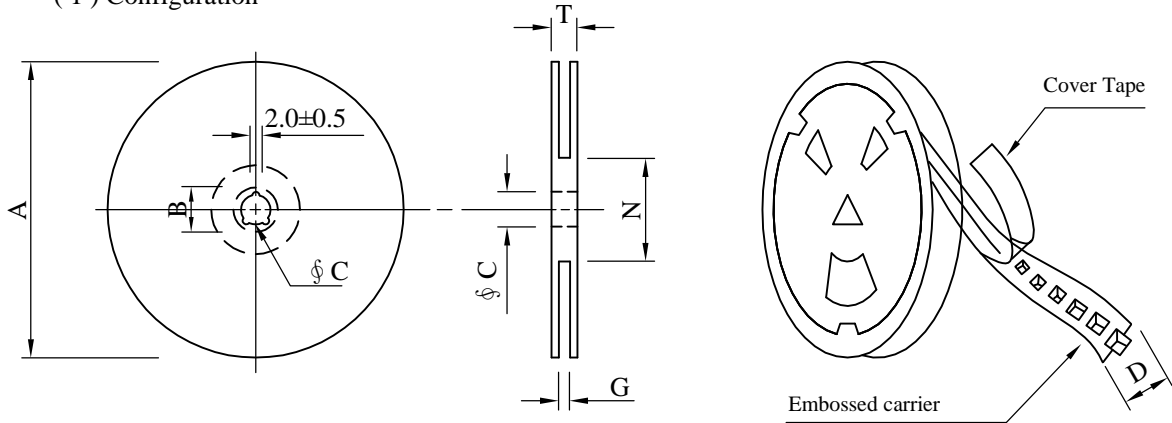
SPECIFICATION FOR APPROVAL

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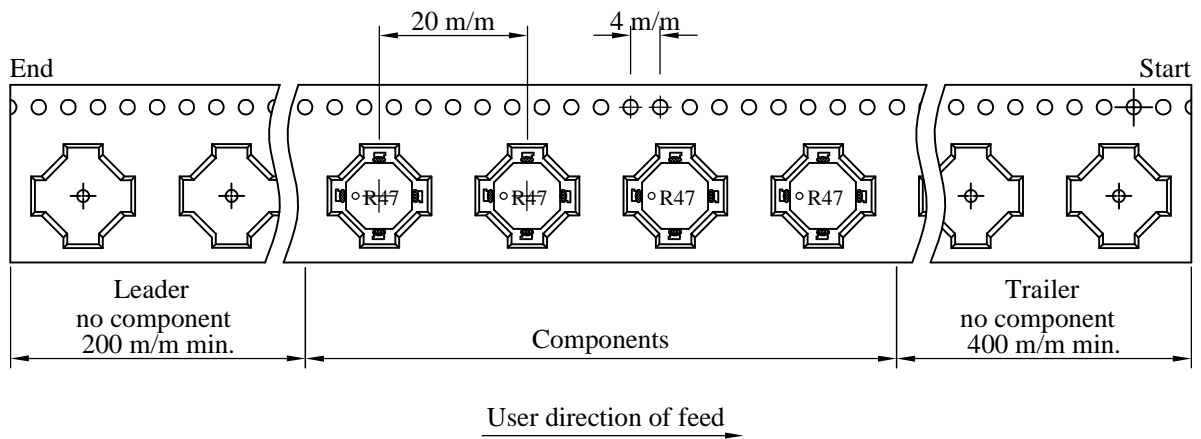
PROD. NAME	SMD Power inductor	ABC'S DWG NO.	SF1506□□□□L□-□□□		
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 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	360	800	13 - 24	1,440	4.5	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power inductor	ABC'S DWG NO.	SF1506□□□□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℃ 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℃ ~ 125℃ 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℃ 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℃ 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.
5.External 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 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 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 : 245±5℃ 2.Time (temp. ≥ 217℃) : 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℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 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℃~125℃ 2.Room temperature : 25℃.	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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