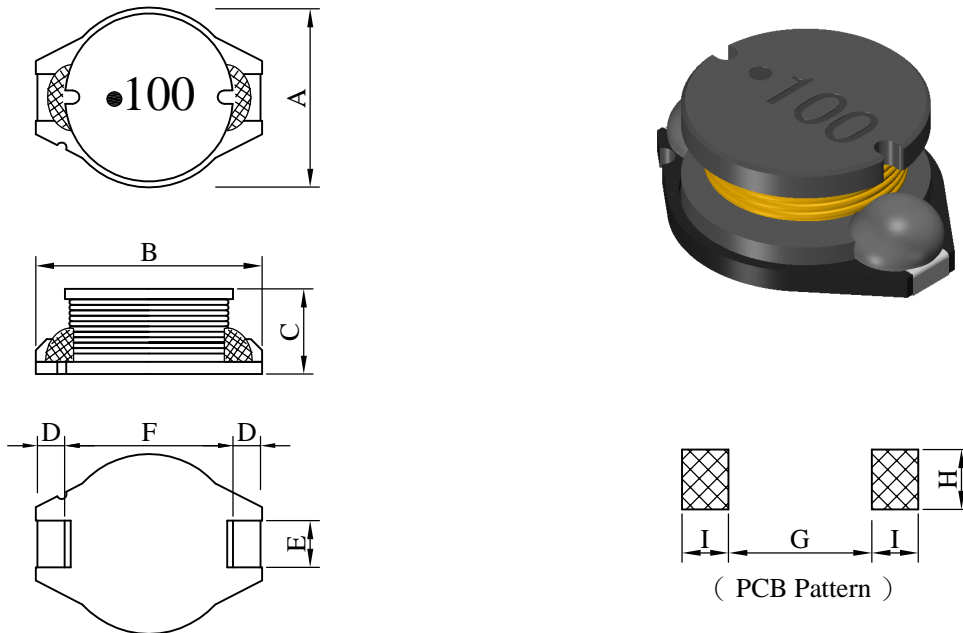


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB1806□□□□L□-□□□		
		REV.	20150511-C	PAGE	1

I . Configuration and dimensions :



Unit : m/m

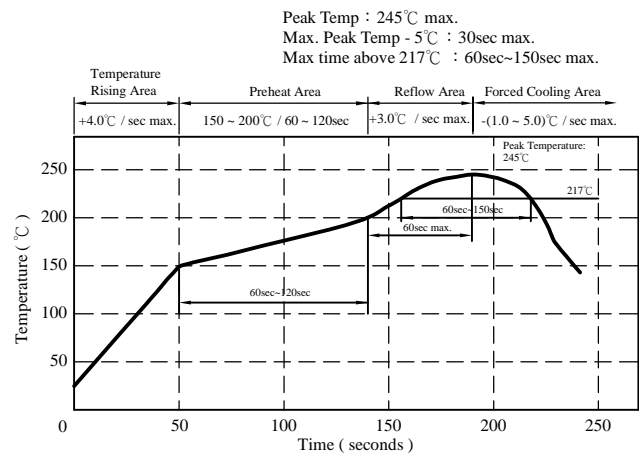
A	B	C	D	E	F	G	H	I
14.00 ±0.5	18.20 ±0.5	6.60 ±0.5	2.50 ±0.2	2.60 ±0.2	13.0 ±0.3	12.70 ref.	2.90 ref.	3.20 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 3.96g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . 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 : 245°C .10 secs.



AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB1806□□□□L□-□□□		
		REV.	20150511-C	PAGE	2

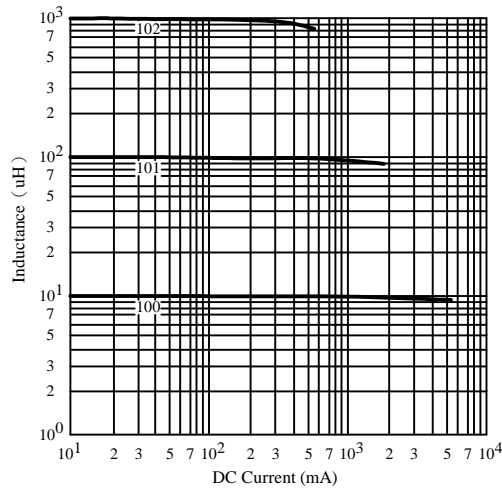
IV . Electrical characteristics :

DWG No.	Inductance (μH)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A)	Isat (A)
SB18061R0ML□-□□□	1.0 ±20%	100.0	4.0	10.00	30.00
SB18062R2ML□-□□□	2.2 ±20%	55.0	6.8	9.00	22.00
SB18063R3ML□-□□□	3.3 ±20%	40.0	9.8	7.60	17.00
SB18065R6ML□-□□□	5.6 ±20%	30.0	15.0	6.40	12.80
SB1806100ML□-□□□	10.0 ±20%	25.0	25.0	5.30	10.00
SB1806150ML□-□□□	15.0 ±20%	17.0	35.0	4.30	8.00
SB1806220ML□-□□□	22.0 ±20%	13.0	45.0	3.60	6.70
SB1806330ML□-□□□	33.0 ±20%	11.0	68.0	3.00	5.40
SB1806470ML□-□□□	47.0 ±20%	9.0	95.0	2.50	4.60
SB1806680ML□-□□□	68.0 ±20%	8.0	130.0	2.10	3.80
SB1806101KL□-□□□	100.0 ±10%	7.0	190.0	1.70	3.20
SB1806151KL□-□□□	150.0 ±10%	5.0	270.0	1.40	2.60
SB1806221KL□-□□□	220.0 ±10%	4.5	420.0	1.10	2.20
SB1806331KL□-□□□	330.0 ±10%	3.5	580.0	1.00	1.80
SB1806471KL□-□□□	470.0 ±10%	3.0	820.0	0.80	1.50
SB1806681KL□-□□□	680.0 ±10%	2.5	1200.0	0.70	1.20
SB1806102KL□-□□□	1000.0 ±10%	2.0	1800.0	0.50	1.00

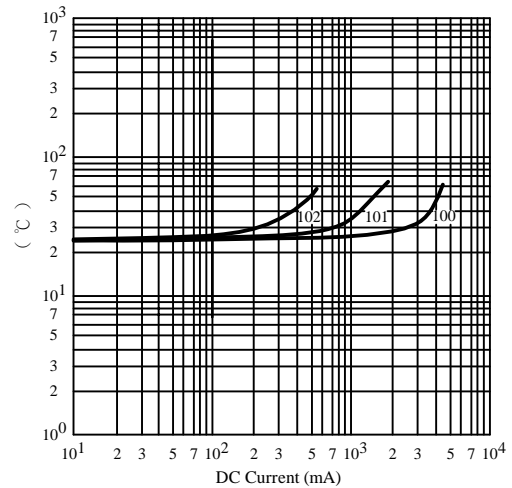
- 1). □: Packaging information : □ Code
- 2). "-□□□□": Reference code
- 3). Electrical specifications at 25°C

- 4). Inductance Test Freq. at 100kHz / 0.1V
- 5). Irms base on temp. rise 40°C max.
- 6). Isat base on ΔL/L0A=10% typ.

@ Inductance VS. DC Current Curve



@ DC Current VS. Temp. Rise Curve



AR-001C

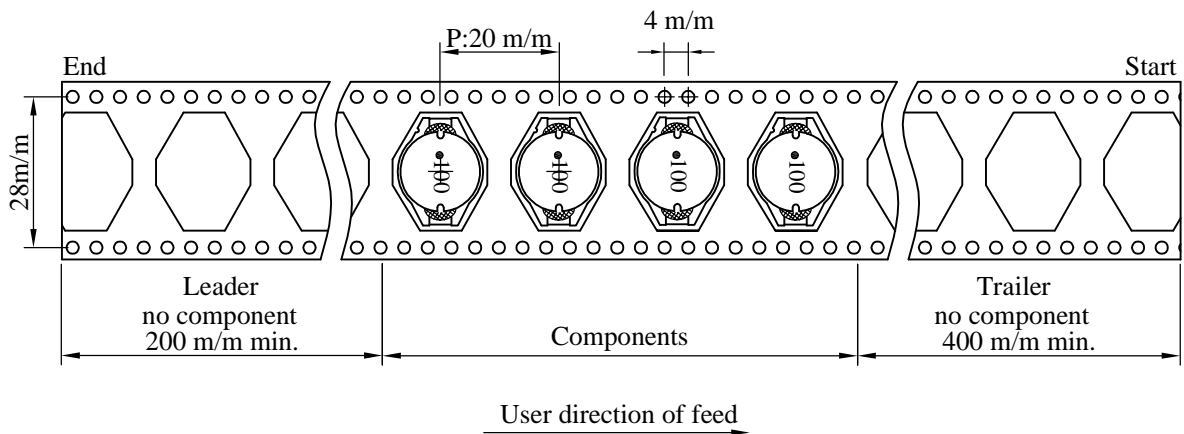
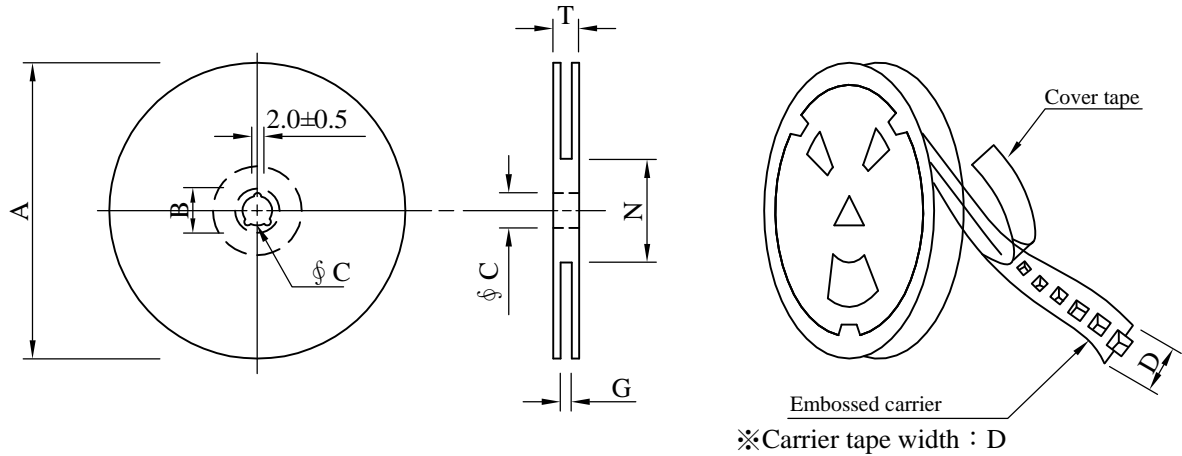
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB1806□□□□L□-□□□		
		REV.	20150511-C	PAGE	3

V . Packaging information :

(1) Configuration :



(2) Dimensions :

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4

(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	250	1410	13 - 32	1,000	6.9	38 x 37 x 22

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB1806□□□□L□-□□□		
		REV.	20150511-C	PAGE	4

VI . 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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 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 ±10%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. pcb and dropped down from a heigh of 1m 2.Drop total time : 6 time (Every side ofsample 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