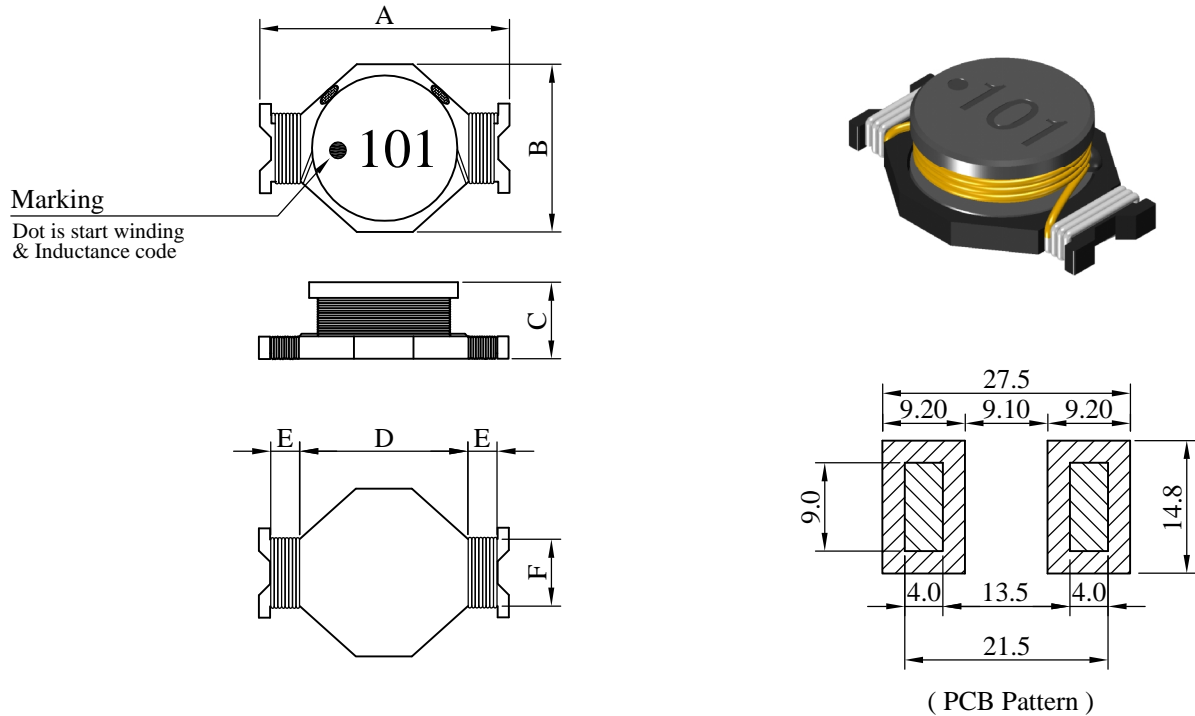


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB2207□□□□L□-□□□		
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I . Configuration and dimensions :



Unit : m/m

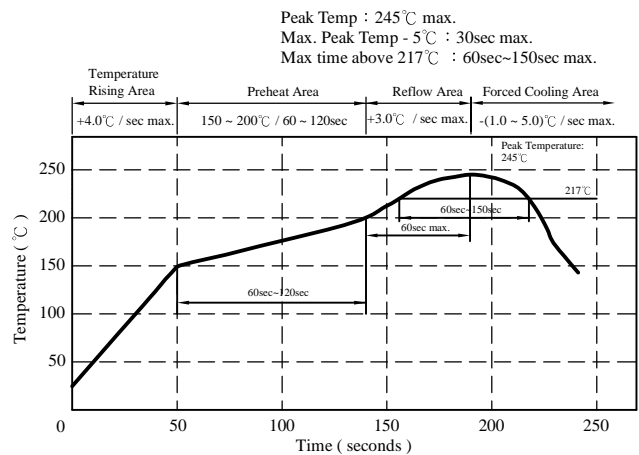
A	B	C	D	E	F
22.00 ±0.3	15.00 ±0.3	7.00 ±0.4	15.00 typ.	2.30 typ.	8.00 typ.

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 4.36g (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.



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SPECIFICATION FOR APPROVAL

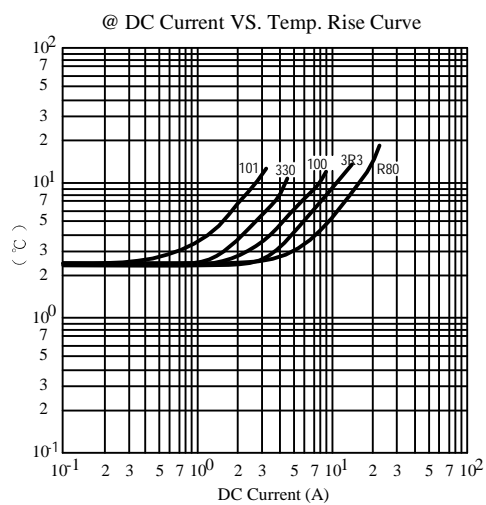
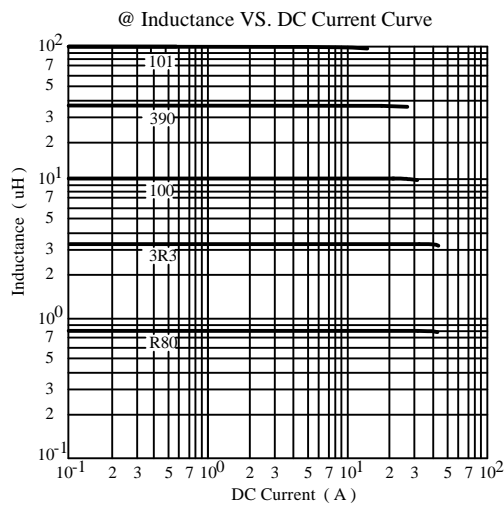
REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB2207□□□□L□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μH) 0.1 V / 100 kHz	RDC (mΩ)	Irms (A) max. ΔT = 40°C	Isat (A) typ. ΔL / L0A = 10%
SB2207R80ML□-□□□	0.80±20%	2.3±20%	16.0	35.0
SB22071R2ML□-□□□	1.20±20%	3.2±20%	15.0	30.0
SB22071R8ML□-□□□	1.80±20%	4.5±20%	13.0	25.0
SB22072R7ML□-□□□	2.70±20%	7.0±20%	10.0	20.0
SB22073R3ML□-□□□	3.30±20%	7.8±20%	9.0	17.0
SB22074R7ML□-□□□	4.70±20%	8.8±20%	8.5	15.0
SB22075R6ML□-□□□	5.60±20%	12.4±20%	7.8	14.0
SB22076R8ML□-□□□	6.80±20%	14.2±20%	7.5	12.0
SB22078R2ML□-□□□	8.20±20%	15.5±20%	7.0	11.0
SB2207100ML□-□□□	10.00±20%	17.2±20%	6.5	10.0
SB2207120YL□-□□□	12.00±15%	23.6±20%	5.5	9.5
SB2207150YL□-□□□	15.00±15%	28.8±20%	5.0	9.0
SB2207180YL□-□□□	18.00±15%	33.0±20%	4.6	8.0
SB2207220YL□-□□□	22.00±15%	39.4±20%	4.0	6.5
SB2207270YL□-□□□	27.00±15%	43.5±20%	3.8	6.0
SB2207330YL□-□□□	33.00±15%	58.4±20%	3.4	5.5
SB2207390KL□-□□□	39.00±10%	65.0±20%	3.2	5.2
SB2207470KL□-□□□	47.00±10%	91.2±20%	2.8	5.0
SB2207560KL□-□□□	56.00±10%	96.5±20%	2.6	4.5
SB2207680KL□-□□□	68.00±10%	112.0±20%	2.4	4.0
SB2207820KL□-□□□	82.00±10%	144.0±20%	2.2	3.5
SB2207101KL□-□□□	100.00±10%	168.0±20%	2.0	3.0

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



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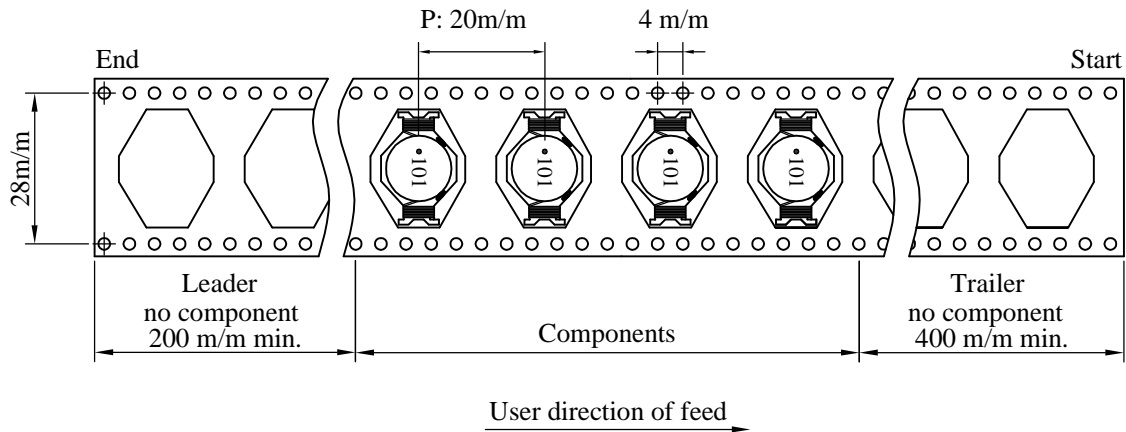
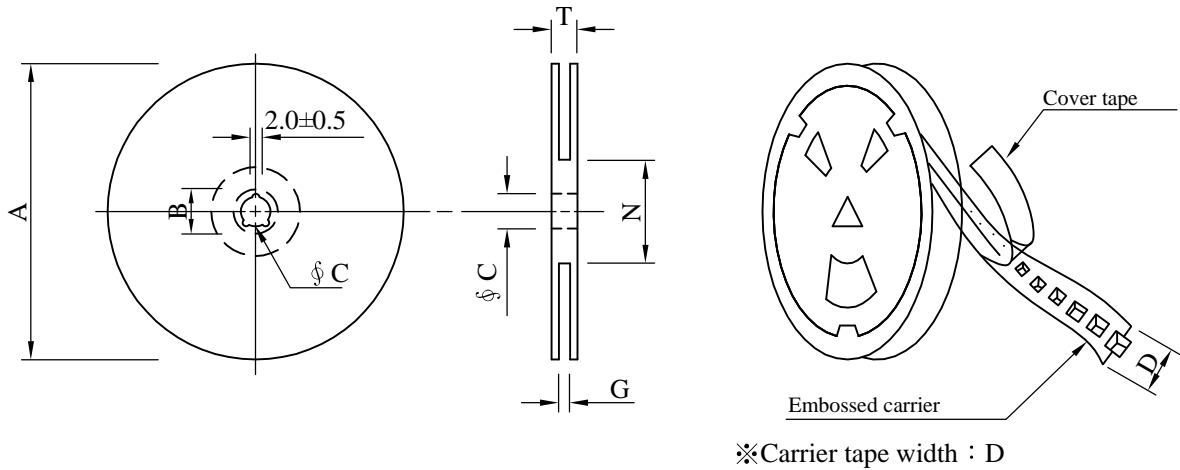
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V . Packaging information :

(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) QTY & G.W. Per package :

Code	Inner : Reel			Outer : Carton		
	QTY (pcs)	G.W. (gw)	Style	QTY (pcs)	G.W. (kg)	Size (cm)
B	250	1650	13 - 32	1,000	7.9	38 x 37 x 22

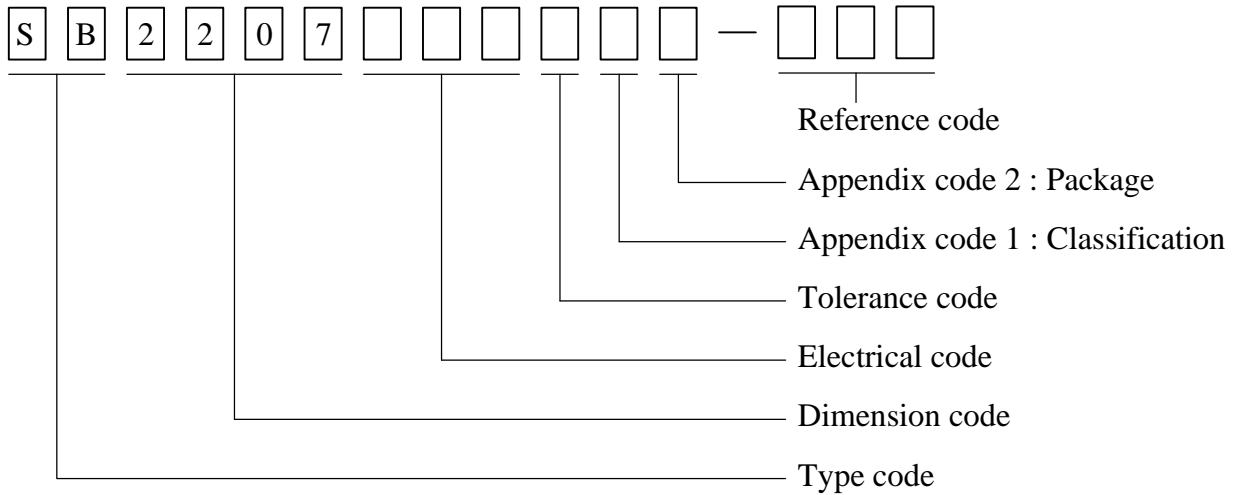
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VI . Drawing number expression :



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)	Adhesive	Antistatic	Antistatic	250 pcs	

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REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB2207□□□□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℃ 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 cycles. 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 Seconds. 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 seconds. 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 seconds. 4.IR reflow times : 1 time.	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 times)	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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