SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SB2206□□□□L□-□□□		
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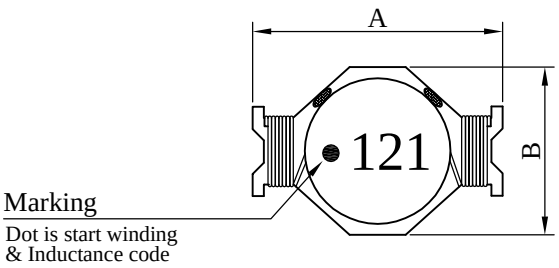
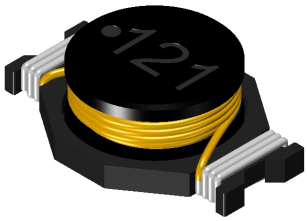
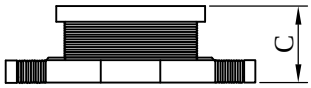
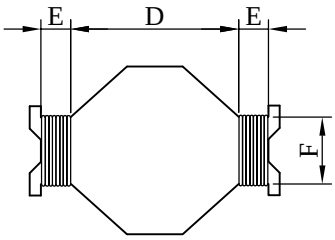
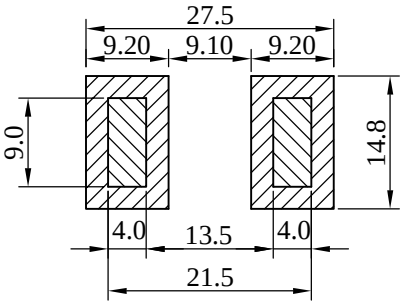
Ⅰ．Configuration and dimensions：











(PCB Pattern)

Unit：m/m

A	B	C	D	E	F
22.0±0.3	15.0±0.3	6.80±0.5	15.0 typ.	2.30 typ.	8.00 typ.

Ⅱ．Description：

a．Ferrite drum core construction.

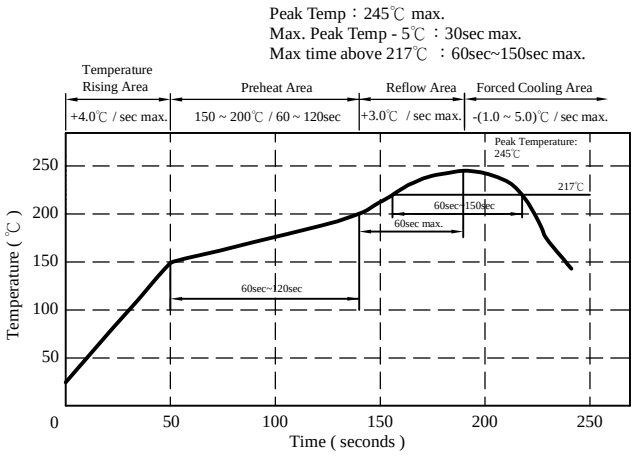
b．Enamelled copper wire：F class

c．Product weight： 3.85g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available.



Ⅲ．General specification：

a．Storage temp.：-40℃ ----+125℃

b．Operating temp.：-40℃----+125℃
(Temp. rise included)

c．Resistance to solder heat：245℃.10 secs.

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Ⅳ．Electrical characteristics：

DWG NO.	Inductance (μH)	Q ref.	SRF (MHz) nom.	RDC (mΩ) max.	Irms (A) max. △T = 40℃	Ipk (A) typ. △L / L0A = 10%
SB2206121KL□-□□□	120±10%	20	5.00	230	1.60	3.0
SB2206151KL□-□□□	150±10%	19	4.87	250	1.50	2.6
SB2206181KL□-□□□	180±10%	17	4.65	300	1.30	2.5
SB2206221KL□-□□□	220±10%	19	3.97	380	1.20	2.4
SB2206271KL□-□□□	270±10%	22	3.37	470	1.10	2.2
SB2206331KL□-□□□	330±10%	20	3.15	560	1.00	1.9
SB2206391KL□-□□□	390±10%	21	3.00	680	0.90	1.7
SB2206471KL□-□□□	470±10%	25	2.55	850	0.82	1.4
SB2206561KL□-□□□	560±10%	23	2.40	1000	0.78	1.3
SB2206681KL□-□□□	680±10%	25	2.50	1100	0.72	1.2
SB2206821KL□-□□□	820±10%	25	1.97	1400	0.64	1.1
SB2206102KL□-□□□	1000±10%	25	1.60	1800	0.56	1.0

1). □：Packaging information：□ Code
2). "-□□□"：Reference code
3). Electrical specifications at 25℃
4). L / Q Test Frequency：100KHz / 0.1V

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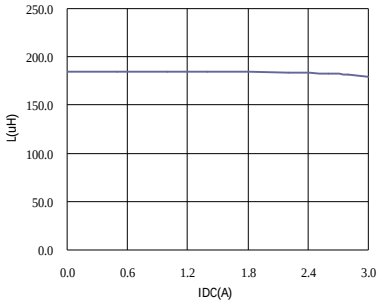
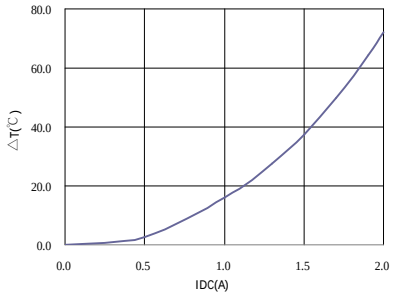
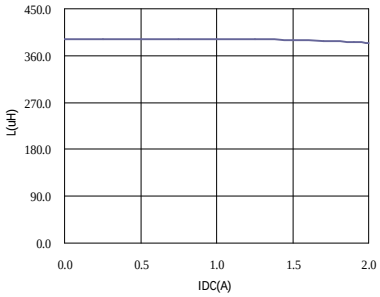
V . Curve：

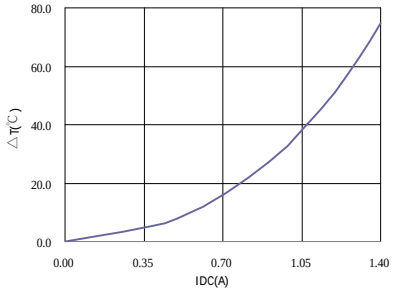
SB2206181KL□



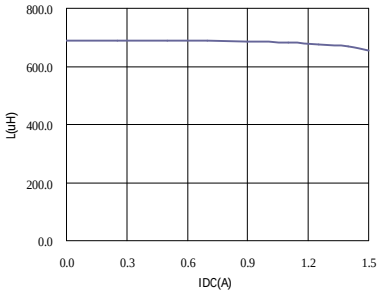


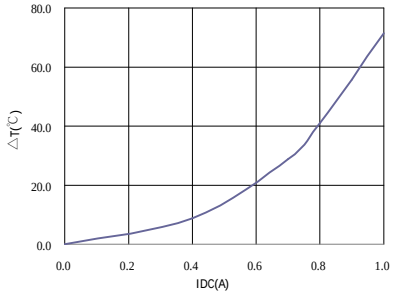
SB2206391KL□



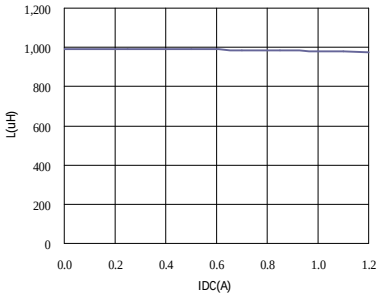


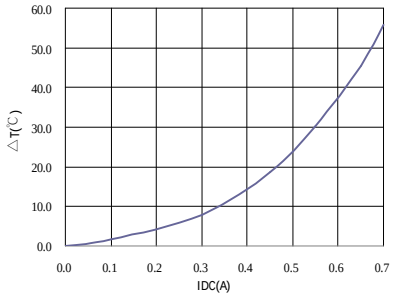
SB2206681KL□





SB2206102KL□





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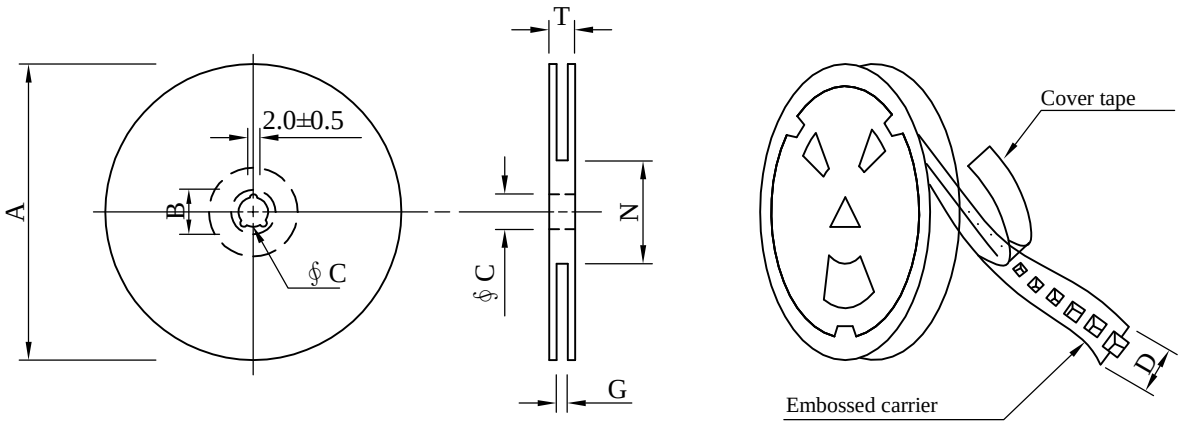
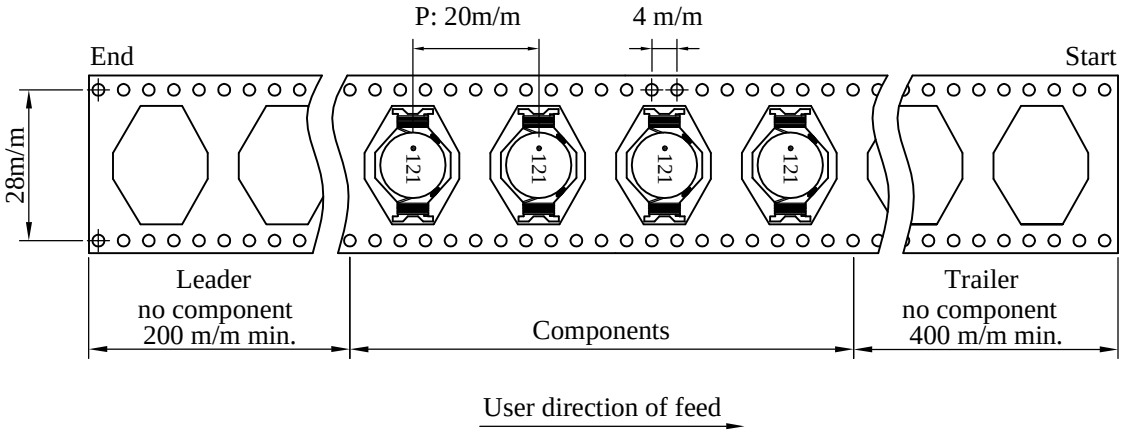
Ⅵ．Packaging information：

1. Configuration :



※Carrier tape width：D



2. Dimensions : (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	1250	13 - 32	1,000	6.8	38 x 37 x 22

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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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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 ±10%.
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.