

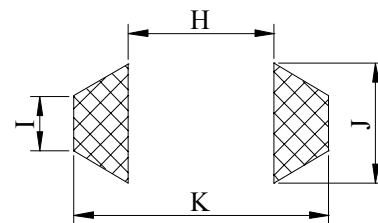
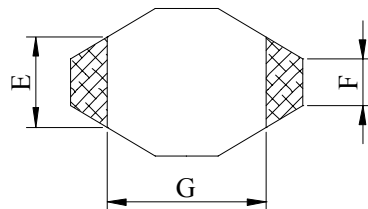
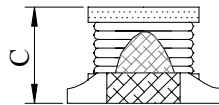
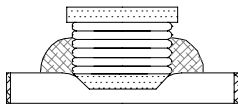
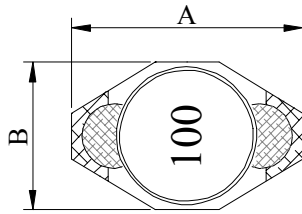
SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB1608□□□□2□-□□□
		ABC'S ITEM NO.	

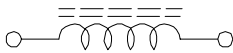
CONFIGURATION & DIMENSIONS :



(PCB Pattern)

A	: 6.60 max.	m/m
B	: 4.45 max.	m/m
C	: 2.92 max.	m/m
E	: 3.05 typ.	m/m
F	: 1.27 typ.	m/m
G	: 4.32 typ.	m/m
H	: 4.10 (ref)	m/m
I	: 1.60 (ref)	m/m
J	: 3.00 (ref)	m/m
K	: 7.00 (ref)	m/m

SCHEMATIC DIAGRAM :

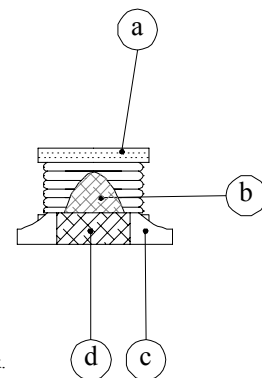


MATERIALS :

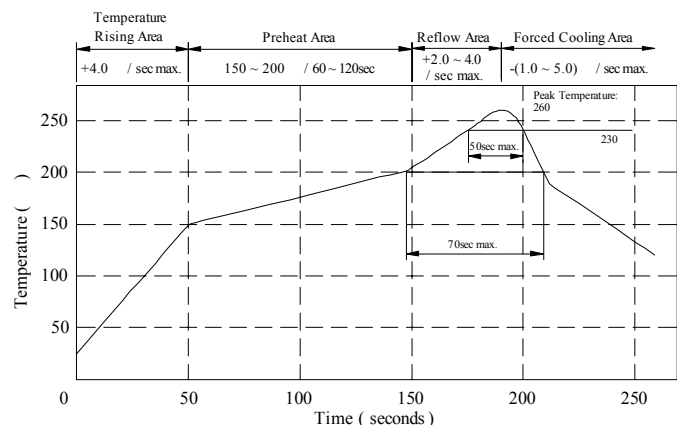
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class F)
- c . Base : Ceramic
- d . Terminal : MoMn/Ni/Au
- e . Adhesive : Epoxy resin
- f . Remark : Products comply with RoHS' requirements

GENERAL SPECIFICATION :

- a . Temp. rise : 15 typ.
- b . Storage temp. : -40 ----+125
- c . Operating temp. : -40 ----+105
- d . DC Current base on temp. rise & $\Delta L/L0A=10\%$ typ.
- e . Resistance to solder heat : 260 .10 secs.



Peak Temp : 260 max.
Max time above 230 : 50sec max.
Max time above 200 : 70sec max.



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PROD.	SMD POWER INDUCTOR	ABC'S DWG NO.	SB1608□□□□2□-□□□
NAME		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H) $\pm 20\%$	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A)	I _{sat} (A)
SB16081R0M2□-□□□	1.0	130	0.05	2.90	2.90
SB16081R5M2□-□□□	1.5	115	0.05	2.80	2.60
SB16082R2M2□-□□□	2.2	90	0.07	2.40	2.30
SB16083R3M2□-□□□	3.3	70	0.08	2.00	2.00
SB16084R7M2□-□□□	4.7	50	0.09	1.50	1.50
SB16086R8M2□-□□□	6.8	45	0.13	1.40	1.20
SB1608100M2□-□□□	10.0	35	0.16	1.10	1.10
SB1608150M2□-□□□	15.0	30	0.23	1.00	0.90
SB1608220M2□-□□□	22.0	20	0.37	0.80	0.70
SB1608330M2□-□□□	33.0	15	0.51	0.60	0.58
SB1608470M2□-□□□	47.0	14	0.64	0.50	0.50
SB1608680M2□-□□□	68.0	11	0.86	0.40	0.40
SB1608101M2□-□□□	100.0	9	1.27	0.30	0.31
SB1608151M2□-□□□	150.0	6	2.00	0.25	0.27
SB1608221M2□-□□□	220.0	5.5	3.11	0.20	0.22
SB1608331M2□-□□□	330.0	5	3.80	0.16	0.18
SB1608471M2□-□□□	470.0	4	5.06	0.15	0.16
SB1608681M2□-□□□	680.0	3	9.20	0.12	0.14
SB1608102M2□-□□□	1000.0	2	13.80	0.07	0.10

1). □ : Packaging Information... ☐ Bulk ☐ Taping Reel

2). "- □□□":Reference code

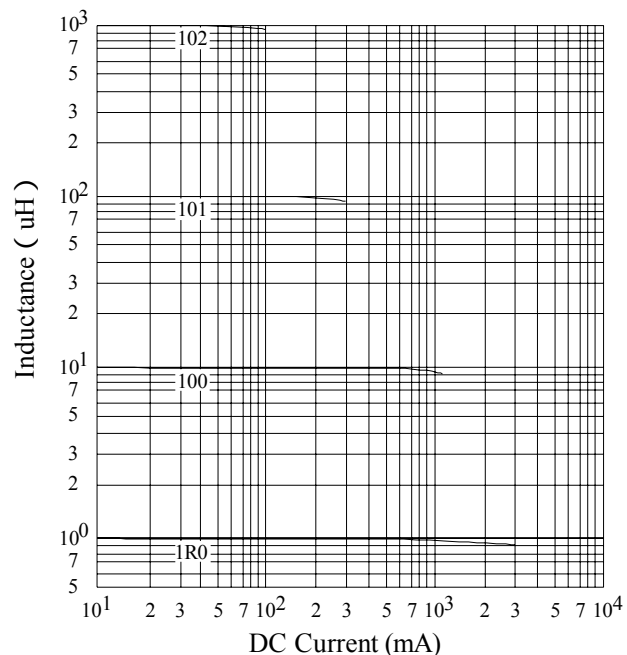
3). Inductance Tested at 0.1V/100KHz

4). Inductance drop=10% typ. at rated I_{sat}.

5). t=15 rise typ. at I_{rms}.

6). Electrical Specifications at 25 .

@ Inductance VS. DC Current Curve



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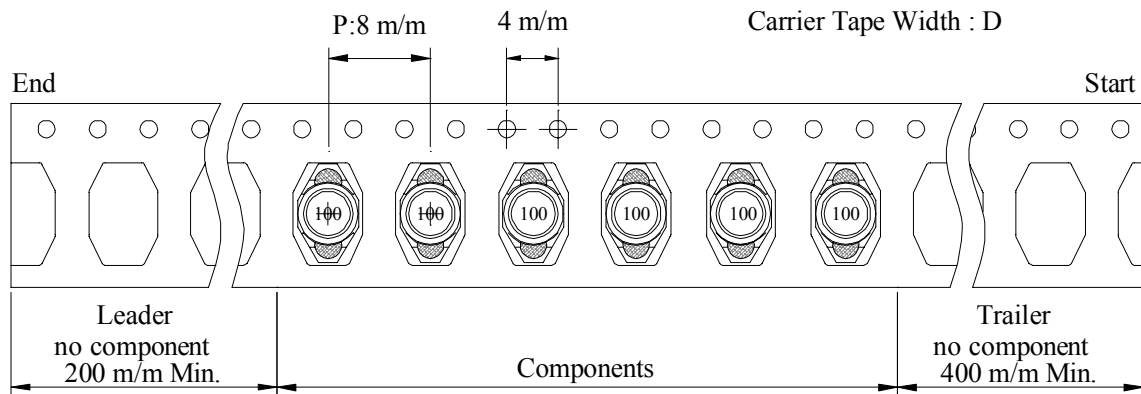
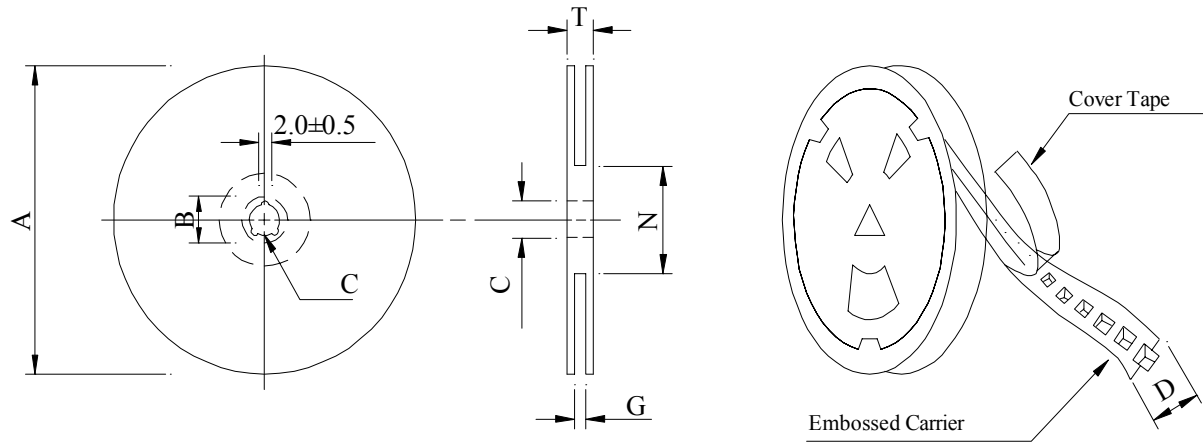
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB1608□□□□2□-□□□
		ABC'S ITEM NO.	

. PACKAGING INFORMATION :

(1) Configuration



User direction of feed →

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07-12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
13-12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

(3) Q'TY & G.W. Per Package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SB1608	600	215	07-12	24,000	9.4	42 x 41 x 24
SB1608	2,500	900	13-12	20,000	8.0	40 x 40 x 24

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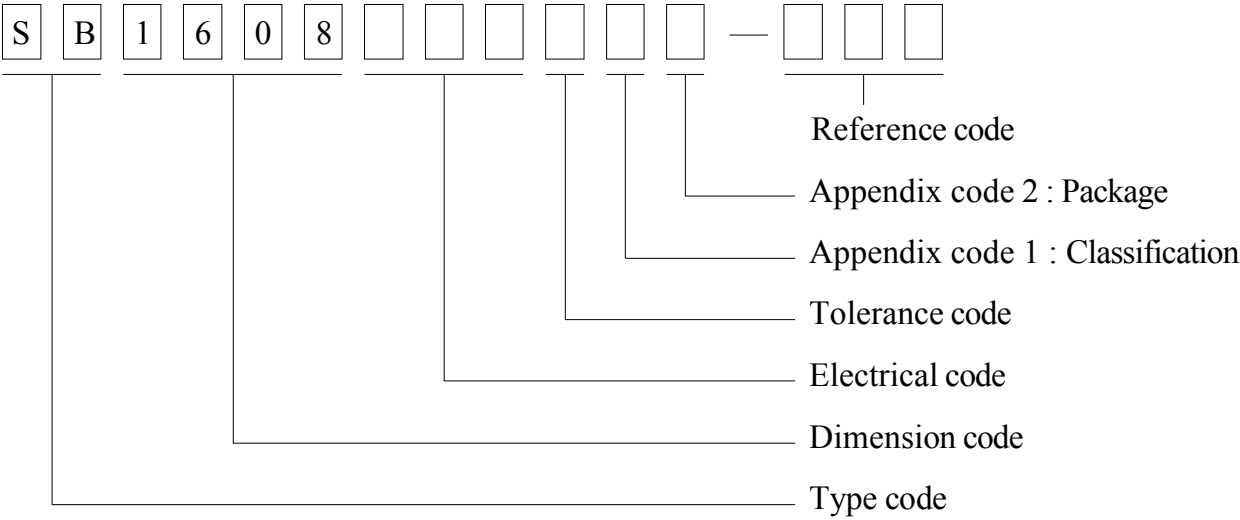
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SBI608□□□□2□-□□□
		ABC'S ITEM NO.	

. DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	600 pcs	
C	T / R (Reel package)	2500 pcs	

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB1608□□□□2□-□□□
		ABC'S ITEM NO.	

. RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode Shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	Room temp. → -25±2 15 minutes 30 minutes Room temp. → 85±2 15 minutes 30 minutes Total : 50 cycles
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours
High temp. Resistance test		Temperature : 105±2 Applied current : Per spec. Time : 500 hours

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PROD.	SMD POWER INDUCTOR	ABC'S DWG NO.	SB1608□□□□2□-□□□
NAME		ABC'S ITEM NO.	

. UL CARD :

OBMW2		September 8, 2000	
Magnet Wire-Component			
JUNG SHING WIRE CO LTD		E174837	
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN			
HSIEN TAIWAN			

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
AIW	—	Polyamideimide	—	—	MW81-C	220
CFUEWB	—	Polyurethane	—	—	MW75C	130
EIAIW	—	Polyesterimide	Polyamideimide	—	MW35C	200
EILOCKY	—	Polyesterimide	Polyamide	—	—	180
EILOCKW	—	Polyesterimide	Modified Epoxy	—	—	200
EW	—	Polyesterimide	—	—	—	220
EW-2	—	Polyesterimide	—	—	MW74-C	200
FL EILOCKY	—	Modified Polyester	Polyamide	—	—	155
LSFFW	—	Polyurethane	—	—	MW79-C	155
LSUEW	—	Polyurethane	—	—	—	130
PEW	—	Polyester	—	—	—	155
PEY	—	Polyester	Nylon	—	MW24-C	155
SF.FLW	—	Modified Polyester	—	—	MW26C	155
SF.EIW	—	Polyesterimide	—	—	MW77C	180
SF.BY@	—	Modified Polyester	Nylon	—	MW27-C	155
SF.FLY@	—	Modified Polyester	Nylon	—	MW27-C	155
SF.BLOCKBS	—	Modified Polyester	Modified Polyamide	—	—	155
SF.EILOCKY#	—	Polyesterimide	Polyamide	—	—	180
SF.EILOCKBS	—	Polyesterimide	Modified Polyamide	—	—	180
SF.BW@	—	Modified Polyester	—	—	MW26C	155
SFFW	—	Polyurethane	—	—	MW79	155

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Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
SFFY	—	Polyurethane	Polyamide	—	MW80C	155
UEW-1	—	Polyurethane	—	—	MW2-C	105
UEW-2	—	Polyurethane	—	—	—	130
UEW-4	—	Polyurethane	—	—	MW75C	130
UEY	—	Polyurethane	Nylon	—	MW28-C	130
UEY-2	—	Polyurethane	Polyamide	—	MW28-C	130

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.
LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks  or 榮星電線, material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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OBMW2E174837
September 8, 2000

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