

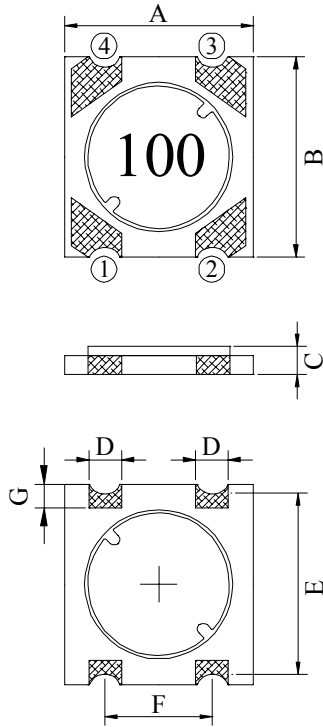
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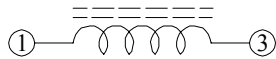
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SB5009□□□□L□-□□□
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. CONFIGURATION & DIMENSIONS :



A	: 5.60 ±0.3	m/m
B	: 6.00 ±0.3	m/m
C	: 0.95 ±0.1	m/m
D	: 1.00 typ.	m/m
E	: 5.20 typ.	m/m
F	: 3.20 typ.	m/m
G	: 0.80 ref.	m/m
H	: 1.30 ref.	m/m
I	: 2.00 ref.	m/m
J	: 6.40 ref.	m/m
K	: 4.60 ref.	m/m
L	: 1.30 ref.	m/m
M	: 3.80 ref.	m/m

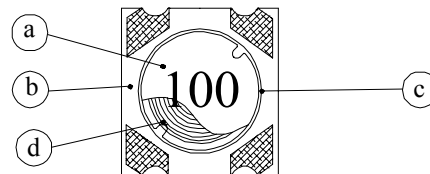
. SCHEMATIC DIAGRAM :



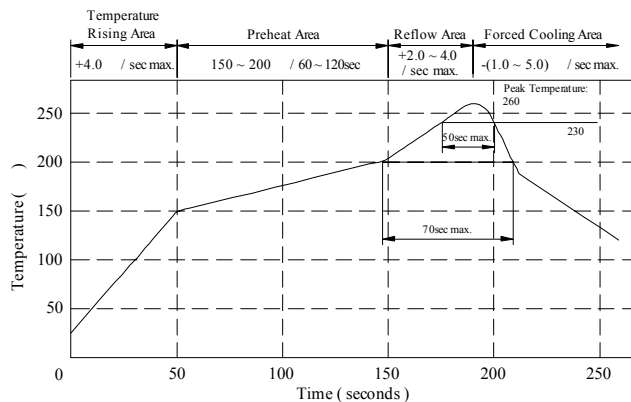
(PCB Pattern Suggestion)

. MATERIALS :

- a . Core : Ferrite DR core
- b . Base : PCB Base FR4
- c . Adhesive : Epoxy resin
- d . Wire : Enamelled copper wire (class F)
- e . Terminal : Cu/Ni/Au
- f . Remark : Products comply with RoHS' requirements



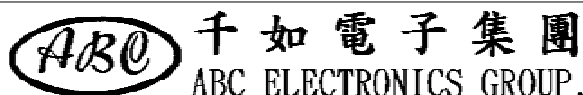
Peak Temp : 260 max.
 Max time above 230 : 50sec max.
 Max time above 200 : 70sec max.



. GENERAL SPECIFICATION :

- a . Temp. rise : 40 typ.
- b . Storage Temp. : -40 ----+125
- c . Operating Temp. : -40 ----+125
(Temp. rise Included)
- d . Resistance to solder heat : 260 .10 secs.

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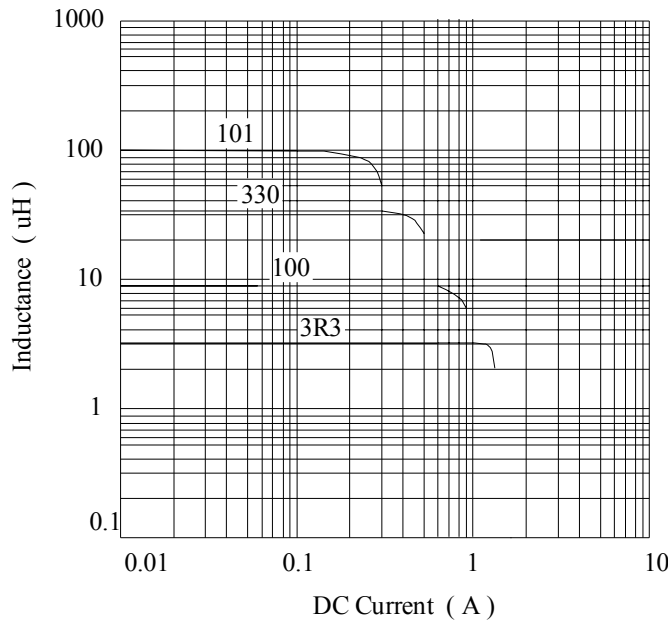
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB5009□□□□L□-□□□
		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	I _{rms} (A) typ.	I _{sat} (A) typ.
SB50091R0ML□-□□□	1.0±20%	100K	0.060	1.50	1.80
SB50092R2ML□-□□□	2.2±20%	100K	0.098	1.20	1.35
SB50093R3ML□-□□□	3.3±20%	100K	0.130	1.05	1.10
SB50094R7ML□-□□□	4.7±20%	100K	0.165	0.90	1.00
SB50096R8ML□-□□□	6.8±20%	100K	0.250	0.70	0.82
SB5009100ML□-□□□	10.0±20%	100K	0.320	0.60	0.68
SB5009150ML□-□□□	15.0±20%	100K	0.500	0.47	0.55
SB5009220ML□-□□□	22.0±20%	100K	0.750	0.38	0.43
SB5009330ML□-□□□	33.0±20%	100K	1.150	0.30	0.35
SB5009470ML□-□□□	47.0±20%	100K	1.650	0.23	0.28
SB5009680ML□-□□□	68.0±20%	100K	2.560	0.18	0.22
SB5009101ML□-□□□	100.0±20%	100K	3.200	0.15	0.18

- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel
- 2). "- □□□": Reference code
- 3). Inductance Test Freq : 100KHz / 1V
- 4). I_{rms} Base on Temp. rise 40 typ.
I_{sat} Base on L/L0A=10 % typ.

@ Inductance VS. DC Superposition Characteristics



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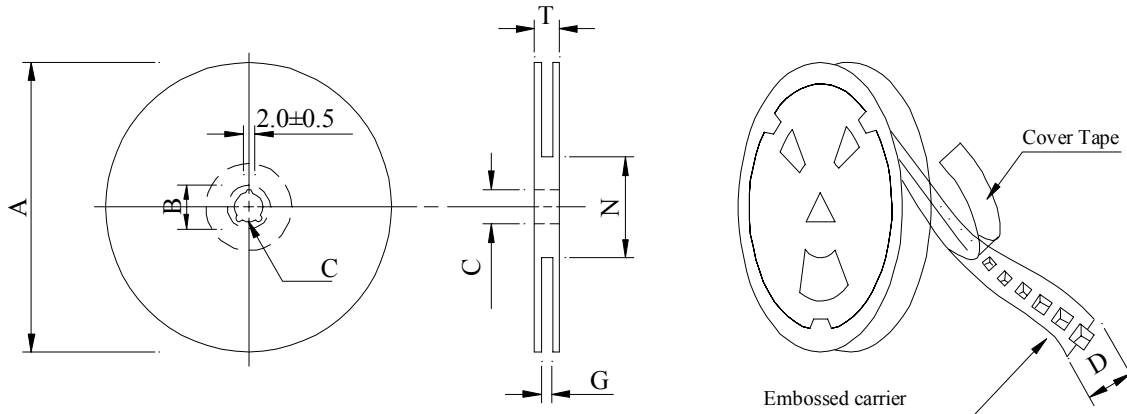
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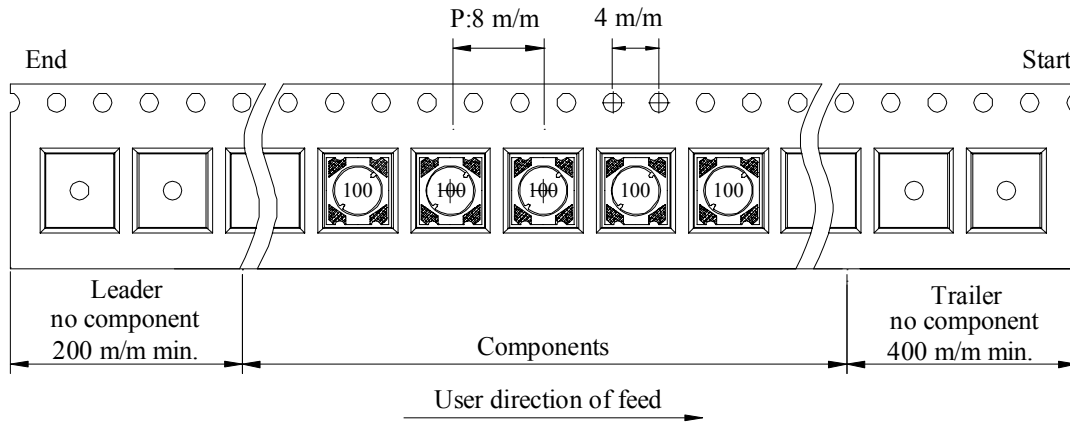
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB5009□□□□L□-□□□
		ABC'S ITEM NO.	

PACKAGING INFORMATION :

(1) Configuration



Carrier Tape width : D



(2) Dimensions

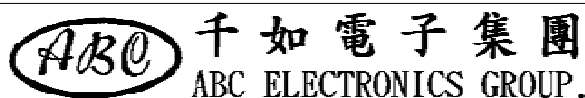
Unit:m/m

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

(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)
SB5009	1200	99	07-12	48000	3.95	42 x 41 x 24

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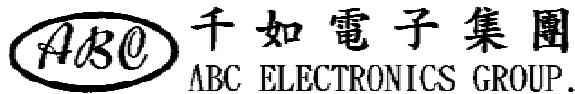
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SB5009□□□□L□-□□□												
. RELIABILITY TEST :															
Test item	Specification	Test condition													
Solderability	More than 90% of the terminal electrode Shall be covered With 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%	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Room temp.</td> <td style="text-align: center; border-bottom: 1px solid black;">15 minutes</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center; border-bottom: 1px solid black;">-25±2</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center; border-bottom: 1px solid black;">30 minutes</td> </tr> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Room temp.</td> <td style="text-align: center; border-bottom: 1px solid black;">15 minutes</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center; border-bottom: 1px solid black;">85±2</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center; border-bottom: 1px solid black;">30 minutes</td> </tr> </table> Total : 50 cycles		Room temp.	15 minutes	→	-25±2	→	30 minutes	Room temp.	15 minutes	→	85±2	→	30 minutes
Room temp.	15 minutes	→	-25±2	→	30 minutes										
Room temp.	15 minutes	→	85±2	→	30 minutes										
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours													
High temp. Resistance test		Temperature : 85±2 Applied current : Per spec. Time : 500 hours													

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SB5009□□□□L□-□□□
		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
EIW	---	Polyesterimide	---	---	---	220
EIW-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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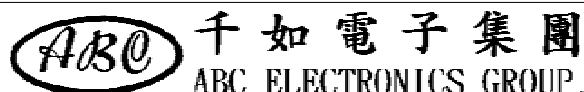
A not-for-profit organization
dedicated to public safety and
committed to quality service

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

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OBMW2/E174837
September 8, 2000

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		ABC'S ITEM NO.	

QMTS2 September 20, 2000

Polymeric Materials-Filament-wound Tubing, Industrial Laminates, Vulcanized
Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards -
Component

TAIWAN LEADER COPPER CLAD LAMINATE CO LTD E176891

Clad Mil Deg	Base Mtl ANSI Type	Min Thick		Clad Cond Thick		Max Area Dia In. (mm)	Soldering		UL94 Flame Class	Max Oper Temp
		In. (mm)	Mils (Mks)	Min Mils (Mks)	Max Mils (Mks)		Temp C	Time Sec		
Metal clad industrial laminates for use in printed wiring boards, furnished in the form of sheets with copper clad- ding on one or both sides.										
JL-180L	FR-5	0.025 (0.63)	0.67 (17)	2.68 (68)	2.0 (50.8)	300	30	94V-0	140	
LS-4	FR-4	0.015 (0.38)	0.68 (17)	2.68 (68)	2.0 (50.8)	280	30	94V-0	130	
LS-4Y	FR-4	0.015 (0.38)	0.68 (17)	2.68 (68)	1.5 (38.1)	288	30	94V-0	130	

3/7/2001
Underwriters Laboratories Inc.®

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