

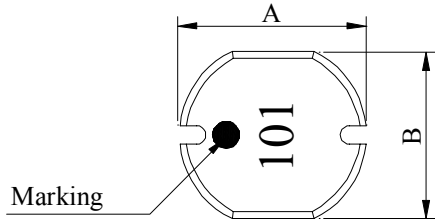
# SPECIFICATION FOR APPROVAL

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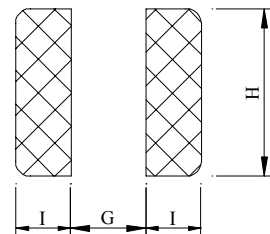
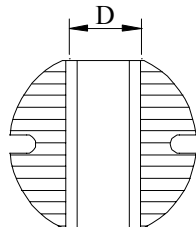
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□L□-□□□
		ABC'S ITEM NO.	

**. CONFIGURATION & DIMENSIONS :**

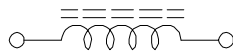


- A : 5.0±0.30 m/m
- B : 4.5±0.30 m/m
- C : 2.0±0.15 m/m
- D : 2.0 ref. m/m
- G : 1.9 ref. m/m
- H : 5.0 ref. m/m
- I : 1.8 ref. m/m



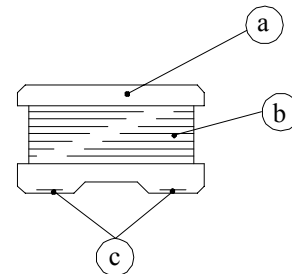
( PCB Pattern )

**. SCHEMATIC DIAGRAM :**



**. MATERIALS :**

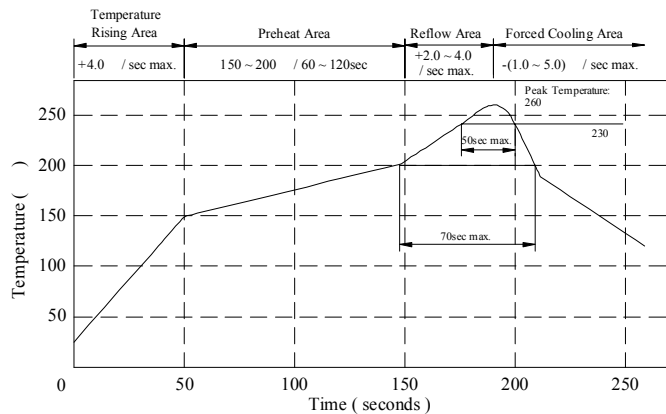
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



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

**. GENERAL SPECIFICATION :**

- a . Temp. rise : 20 max.
- b . Rated current : Base on temp. rise & L / LOA=10% typ.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+105
- e . Resistance to solder heat : 260 .10 secs.



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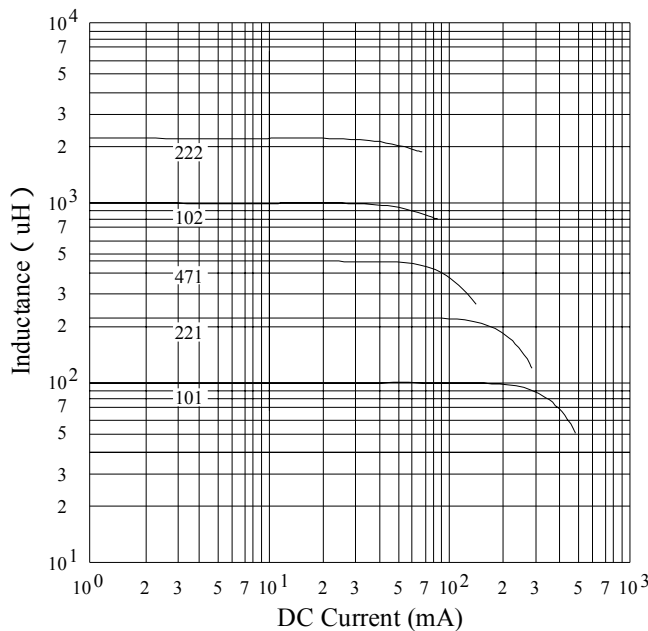
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□L□-□□□
		ABC'S ITEM NO.	

**. ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	I <sub>rms</sub> (mA) max. T=20	I <sub>sat</sub> (mA) typ. L/L0A=10%
			L	Q			
SR0502101ML□-□□□	100.0±20%	20	100K/0.1V	796K	1.5	270	265
SR0502121ML□-□□□	120.0±20%	27	100K/0.1V	796K	1.7	252	245
SR0502151ML□-□□□	150.0±20%	28	100K/0.1V	796K	2.2	237	232
SR0502181ML□-□□□	180.0±20%	25	100K/0.1V	796K	2.5	220	215
SR0502221ML□-□□□	220.0±20%	32	100K/0.1V	796K	3.2	204	200
SR0502271ML□-□□□	270.0±20%	30	100K/0.1V	796K	3.9	190	182
SR0502331ML□-□□□	330.0±20%	40	100K/0.1V	796K	5.0	174	165
SR0502391ML□-□□□	390.0±20%	40	100K/0.1V	796K	5.4	156	148
SR0502471ML□-□□□	470.0±20%	32	100K/0.1V	796K	6.5	140	130
SR0502561ML□-□□□	560.0±20%	45	100K/0.1V	796K	8.8	125	120
SR0502681ML□-□□□	680.0±20%	40	100K/0.1V	796K	10.5	110	105
SR0502821ML□-□□□	820.0±20%	35	100K/0.1V	796K	12.0	97	95
SR0502102ML□-□□□	1000.0±20%	42	100K/0.1V	252K	16.0	85	85
SR0502122ML□-□□□	1200.0±20%	44	100K/0.1V	252K	18.5	76	80
SR0502152ML□-□□□	1500.0±20%	40	100K/0.1V	252K	22.0	70	72
SR0502182ML□-□□□	1800.0±20%	40	100K/0.1V	252K	28.5	65	68
SR0502222ML□-□□□	2200.0±20%	40	100K/0.1V	252K	34.5	60	62
SR0502272ML□-□□□	2700.0±20%	40	100K/0.1V	252K	40.0	53	55

- 1). □ : Packaging information... [A]: Bulk [B]: Taping Reel  
 2). "- □□□": Reference code

@ Inductance VS. DC Current curve



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# SPECIFICATION FOR APPROVAL

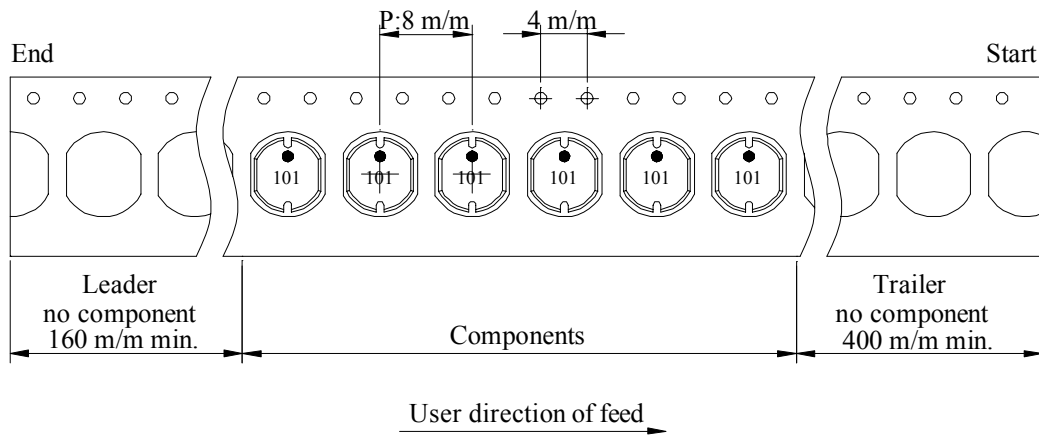
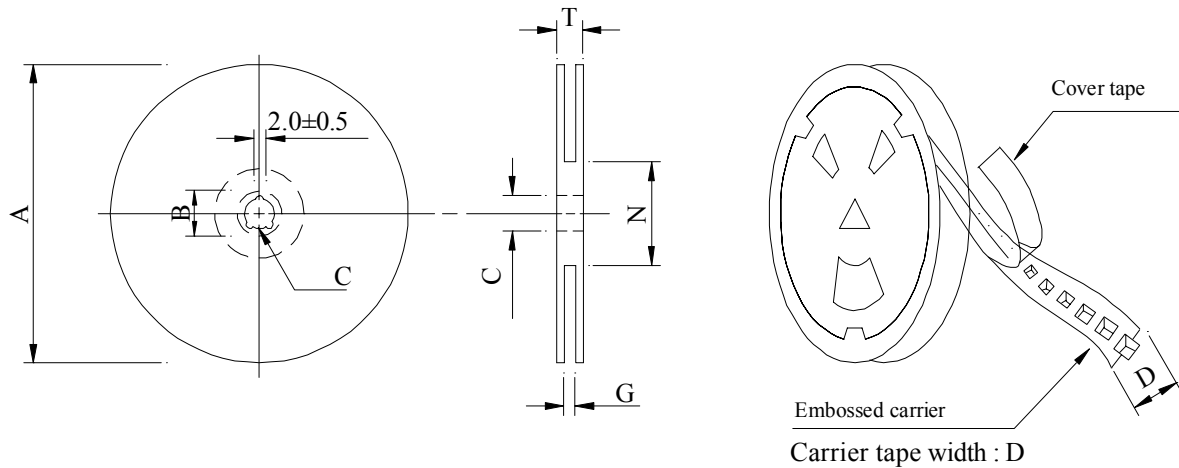
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□L□-□□□
		ABC'S ITEM NO.	

## PACKAGING INFORMATION

### ( 1 ) Configuration



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13±0.5	12	14 <sup>+0</sup>	50 <sup>-0</sup>	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)
SR0502	800	416	07 - 12	32,000	16.6	42 x 41 x 24

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PROD. NAME	<b>SMD POWER INDUCTOR</b>	ABC'S DWG NO. ABC'S ITEM NO.	SR0502□□□□L□-□□□
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**. 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: none;"> <tr> <td style="text-align: center;">Room temp.</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25±2</td> </tr> <tr> <td style="text-align: center;">15 minutes</td> <td></td> <td style="text-align: center;">30 minutes</td> </tr> <tr> <td colspan="3" style="padding: 10px 0 0 0;"> </td> </tr> <tr> <td style="text-align: center;">Room temp.</td> <td style="text-align: center;">→</td> <td style="text-align: center;">85±2</td> </tr> <tr> <td style="text-align: center;">15 minutes</td> <td></td> <td style="text-align: center;">30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp.	→	-25±2	15 minutes		30 minutes				Room temp.	→	85±2	15 minutes		30 minutes
Room temp.	→	-25±2															
15 minutes		30 minutes															
Room temp.	→	85±2															
15 minutes		30 minutes															
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. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□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

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL  
LZ - Signifies magnet 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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