

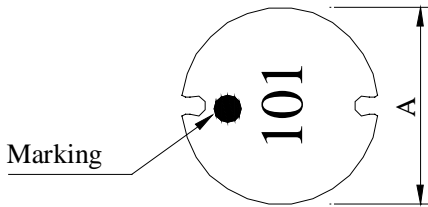
# SPECIFICATION FOR APPROVAL

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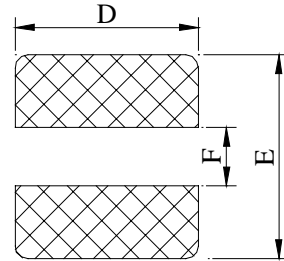
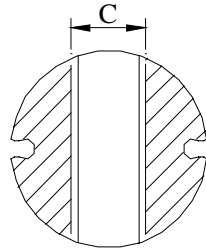
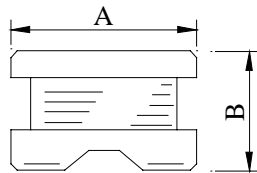
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0602□□□□L□
		ABC'S ITEM NO.	

**. CONFIGURATION & DIMENSIONS :**

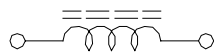


- A : 5.6±0.2 m/m
- B : 2.5±0.3 m/m
- C : 2.3 ref. m/m
- D : 5.8 ref. m/m
- E : 6.0 ref. m/m
- F : 1.7 ref. m/m



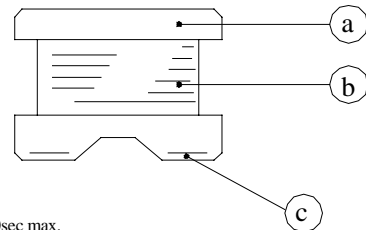
( PCB Pattern )

**. SCHEMATIC DIAGRAM :**



**. MATERIALS :**

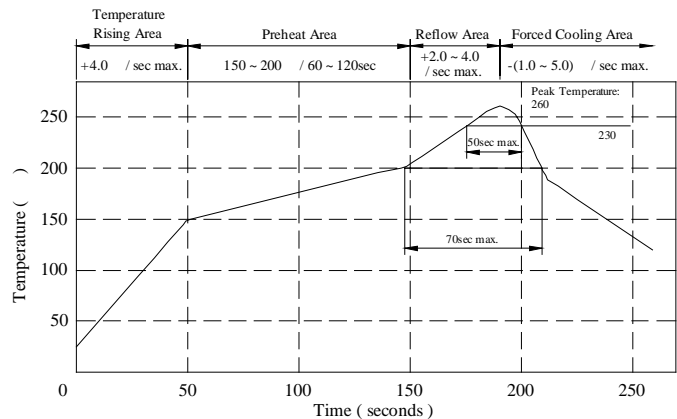
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire ( class F )
- c . Terminal : Ag/Ni/Sn
- d . Remark : Lead content 200ppm max.  
include ferrite



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

**. GENERAL SPECIFICATION :**

- a . Temp. rise : 40 max.
- b . Rated current : Base on temp. rise  
& L / LOA=10% max.
- 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.	SR0602□□□□L□
		ABC'S ITEM NO.	

## . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq. ( Hz )		SRF ( MHz ) nom.	RDC ( m $\Omega$ ) max.	Irms ( A ) max.	Isat ( A ) typ.
			L	Q				
SR06021R0ML□	1.0 $\pm$ 20%	14	100 K	7.960M	90.0	30.0	4.50	4.60
SR06021R4ML□	1.4 $\pm$ 20%	14		7.960M	80.0	35.0	4.00	4.20
SR06021R8ML□	1.8 $\pm$ 20%	13		7.960M	70.0	40.0	3.30	3.50
SR06022R2ML□	2.2 $\pm$ 20%	13		7.960M	60.0	45.0	3.00	3.20
SR06022R7ML□	2.7 $\pm$ 20%	13		7.960M	55.0	50.0	2.80	3.00
SR06023R3ML□	3.3 $\pm$ 20%	12		7.960M	50.0	55.0	2.60	2.90
SR06023R9ML□	3.9 $\pm$ 20%	12		7.960M	45.0	60.0	2.40	2.70
SR06024R7ML□	4.7 $\pm$ 20%	11		7.960M	40.0	70.0	2.20	2.40
SR06025R6ML□	5.6 $\pm$ 20%	11		7.960M	36.0	85.0	2.00	2.30
SR06026R8ML□	6.8 $\pm$ 20%	11		7.960M	32.0	100.0	1.80	2.00
SR06028R2ML□	8.2 $\pm$ 20%	11		7.960M	30.0	110.0	1.60	1.90
SR0602100ML□	10.0 $\pm$ 20%	15		2.520M	26.0	140.0	1.50	1.70
SR0602120ML□	12.0 $\pm$ 20%	15		2.520M	24.0	150.0	1.40	1.60
SR0602150ML□	15.0 $\pm$ 20%	15		2.520M	22.0	180.0	1.30	1.45
SR0602180ML□	18.0 $\pm$ 20%	15		2.520M	20.0	220.0	1.20	1.30
SR0602220ML□	22.0 $\pm$ 20%	15		2.520M	18.0	280.0	1.00	1.10
SR0602270ML□	27.0 $\pm$ 20%	12		2.520M	16.0	320.0	0.90	1.05
SR0602330KL□	33.0 $\pm$ 10%	12		2.520M	15.0	420.0	0.85	1.00
SR0602390KL□	39.0 $\pm$ 10%	12		2.520M	14.0	480.0	0.75	0.80
SR0602470KL□	47.0 $\pm$ 10%	12		2.520M	12.0	560.0	0.73	0.75
SR0602560KL□	56.0 $\pm$ 10%	12		2.520M	11.0	700.0	0.65	0.70
SR0602680KL□	68.0 $\pm$ 10%	12		2.520M	10.0	820.0	0.60	0.65
SR0602820KL□	82.0 $\pm$ 10%	12		2.520M	9.5	1100.0	0.52	0.60
SR0602101KL□	100.0 $\pm$ 10%	22		796K	8.5	1250.0	0.46	0.55
SR0602121KL□	120.0 $\pm$ 10%	22		796K	8.0	1350.0	0.40	0.52
SR0602151KL□	150.0 $\pm$ 10%	22		796K	7.0	1650.0	0.36	0.46
SR0602181KL□	180.0 $\pm$ 10%	24		796K	6.5	1900.0	0.30	0.40
SR0602221KL□	220.0 $\pm$ 10%	24		796K	6.0	2200.0	0.28	0.35
SR0602271KL□	270.0 $\pm$ 10%	24		796K	5.5	3000.0	0.26	0.30
SR0602331KL□	330.0 $\pm$ 10%	34		796K	5.0	3800.0	0.20	0.25
SR0602391KL□	390.0 $\pm$ 10%	34	796K	4.5	4300.0	0.18	0.22	
SR0602471KL□	470.0 $\pm$ 10%	36	796K	4.0	5200.0	0.16	0.20	
SR0602561KL□	560.0 $\pm$ 10%	36	796K	3.8	6500.0	0.14	0.18	
SR0602681KL□	680.0 $\pm$ 10%	36	796K	3.5	7500.0	0.13	0.16	
SR0602821KL□	820.0 $\pm$ 10%	36	796K	3.0	9800.0	0.10	0.14	
SR0602102KL□	1000.0 $\pm$ 10%	36	252K	2.6	11000.0	0.08	0.12	

- 1). □ : Packaging information ... [A] : Bulk , [B] : Taping Reel
- 2). Inductance Test Freq. at 100KHz / 0.1V.
- 3). Irms base on Temp. rise 40 max.
- 4). Isat base on L/LOA = 10% typ.

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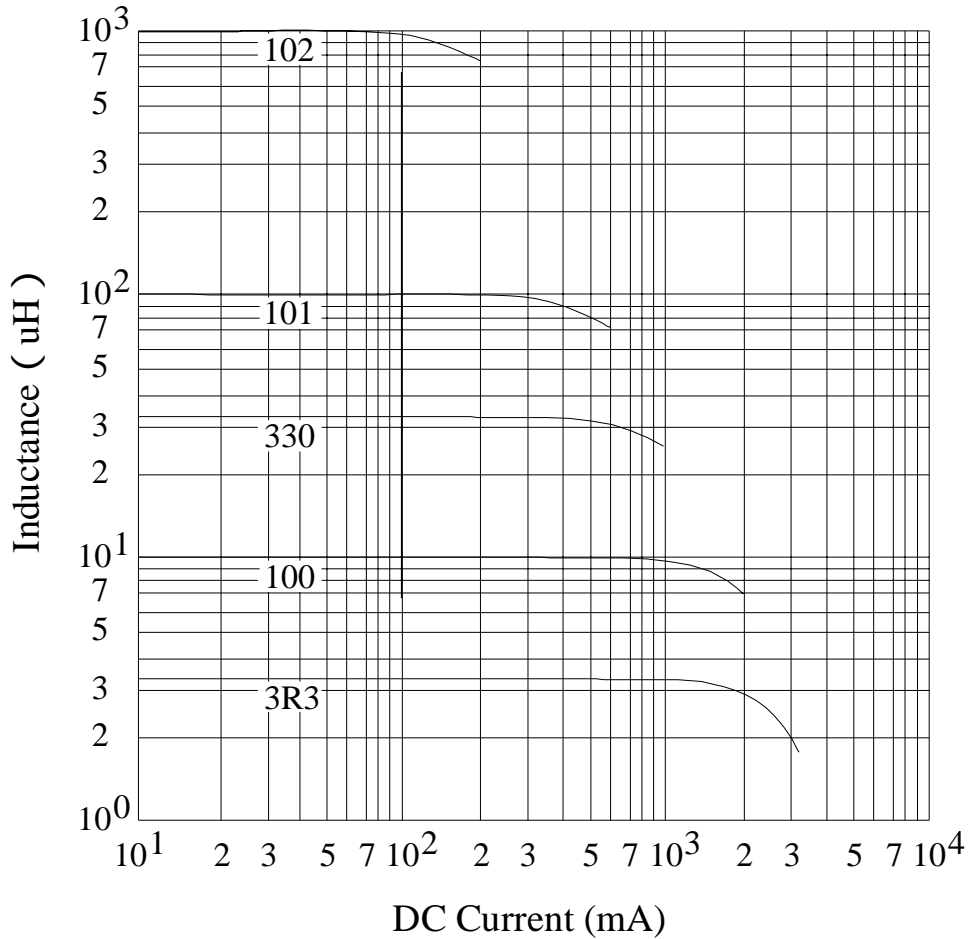
# SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SR0602□□□□L□
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. INDUCTANCE VS. DC CURRENT CURVE :



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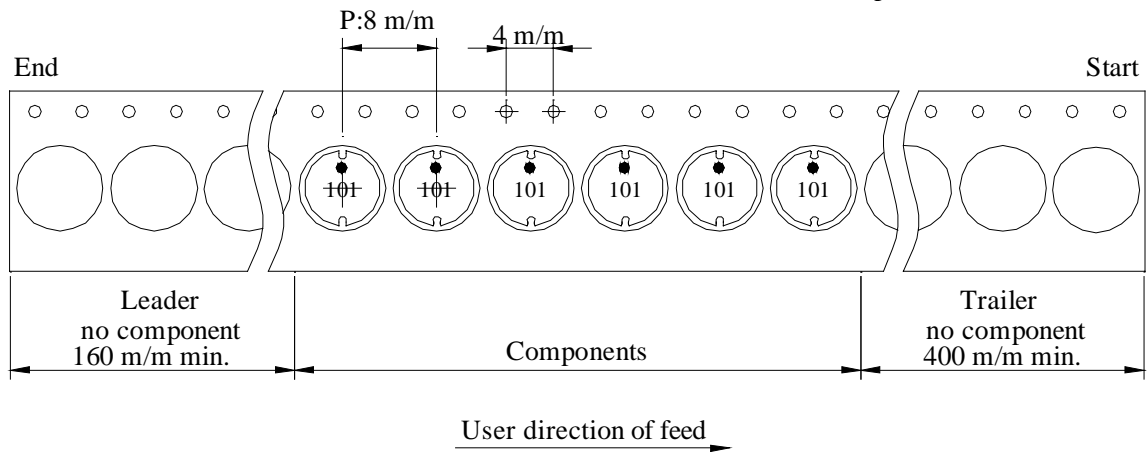
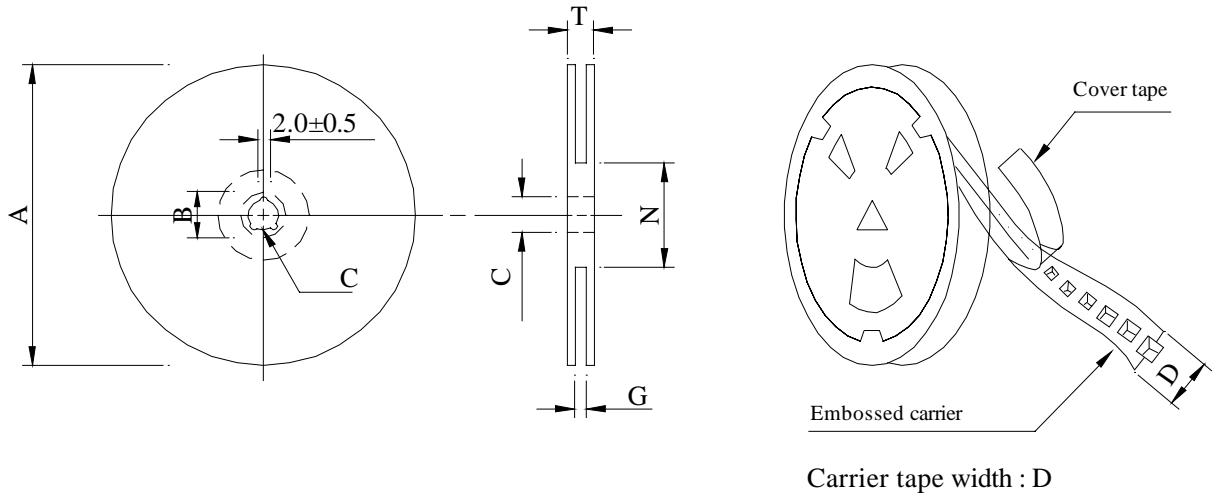
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0602□□□□L□
		ABC'S ITEM NO.	

**PACKAGING INFORMATION :**

( 1 ) Configuration



( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	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)
SR0602	700	220	07 - 12	28,000	9.6	42 x 41 x 24

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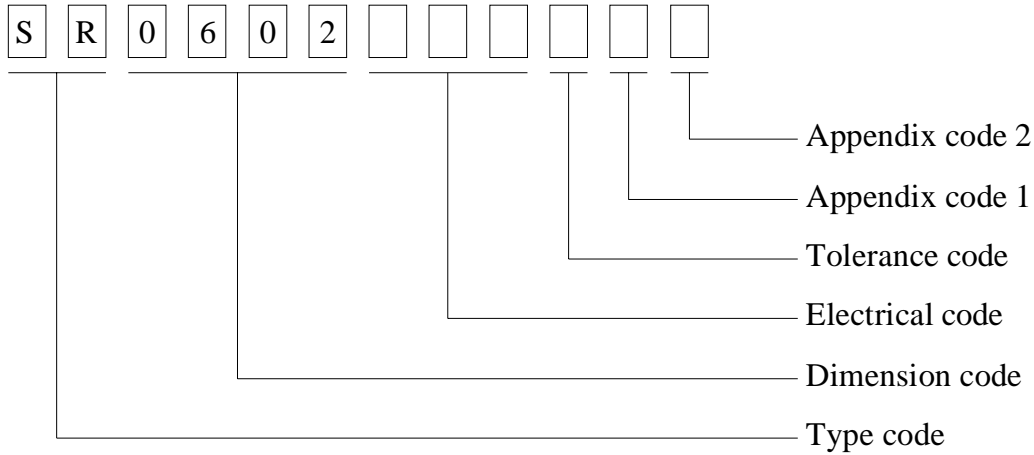
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**. DWG EXPRESSION :**



- Appendix code 1 : S : Standard products  
 A K , M R , T Z : Special products  
 L : Standard Lead Free products  
 1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner package	Inner package Q'TY	Remak
A	Empty	Empty	
B	T / R ( Reel package )	700 pcs	

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0602□□□□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;">—————&gt;</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 20px;"> </td> </tr> <tr> <td style="text-align: center;">Room temp.</td> <td style="text-align: center;">—————&gt;</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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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	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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Mtl Dsg	Mark Dsg	BC	Coat Typ	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 LZI.  
LZ - Signifies magened 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 JSW 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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