

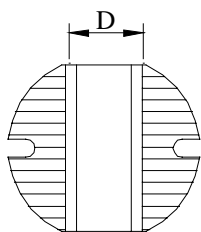
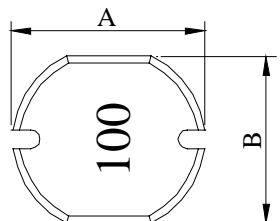
# SPECIFICATION FOR APPROVAL

REF :

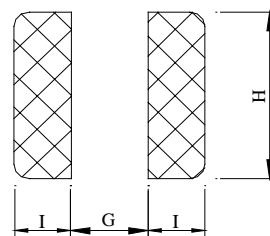
PAGE: 1

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□L□
		ABC'S ITEM NO.	

**CONFIGURATION & DIMENSIONS :**

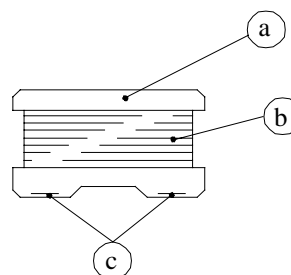


- A : 3.0 ±0.2 m/m
- B : 2.8 ±0.2 m/m
- C : 1.5 ±0.2 m/m
- D : 0.9 typ. m/m
- G : 0.8 ref. m/m
- H : 3.0 ref. m/m
- I : 1.4 ref. m/m



( PCB Pattern )

**SCHEMATIC DIAGRAM :**



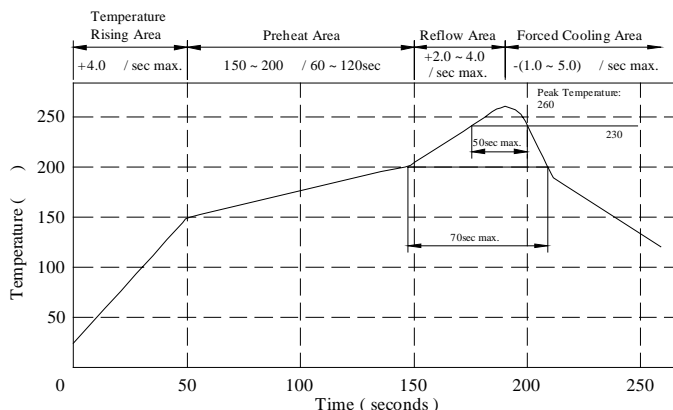
**MATERIALS :**

- 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 : 30 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.



AE-001A

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

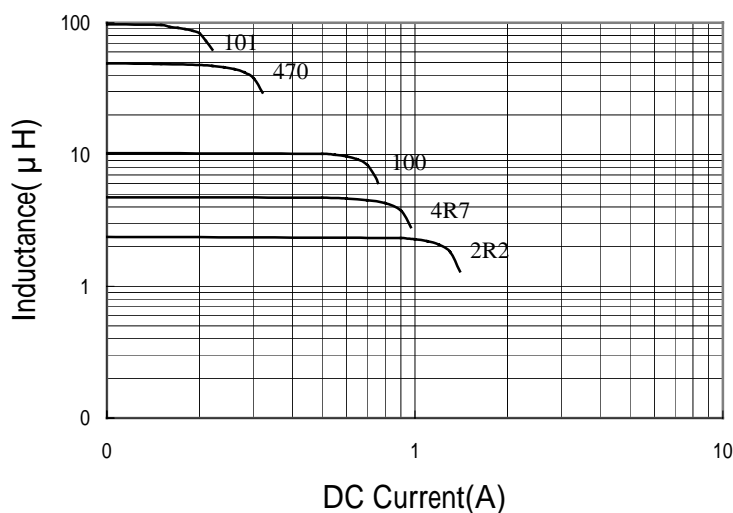
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□L□
		ABC'S ITEM NO.	

**. ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq.		RDC ( $\Omega$ )		SRF (MHz) typ.	Isat (mA) typ.	Irms (mA) max.
			L (Hz)/0.1V	Q (MHz)	typ.	max.			
SR30152R2ML□	2.2 $\pm$ 20 %	12.0	100K	7.96	0.095	0.125	100	1000	1200
SR30154R7ML□	4.7 $\pm$ 20 %	10.0	100K	7.96	0.165	0.215	80	700	1000
SR3015100ML□	10.0 $\pm$ 20 %	12.0	100K	2.52	0.360	0.450	55	500	650
SR3015150ML□	15.0 $\pm$ 20 %	15.0	100K	2.52	0.540	0.675	40	400	500
SR3015220ML□	22.0 $\pm$ 20 %	20.0	100K	2.52	0.850	1.060	35	330	420
SR3015330KL□	33.0 $\pm$ 10 %	20.0	100K	2.52	1.150	1.430	28	270	350
SR3015470KL□	47.0 $\pm$ 10 %	15.0	100K	2.52	1.550	1.950	23	220	300
SR3015680KL□	68.0 $\pm$ 10 %	22.0	100K	2.52	2.350	2.950	18	180	230
SR3015101KL□	100.0 $\pm$ 10 %	40.0	100K	0.796	3.500	4.400	15	160	200

- 1) . □ : Packaging Information... A : Bulk B : Taping Reel
- 2) . Inductance Test Freq. : 100KHz / 0.1V
- 3) . Isat base on L / LOA=10% typ.
- 4) . Irms base on Temp. rise 30 max.

Inductance VS. DC Current curve



# SPECIFICATION FOR APPROVAL

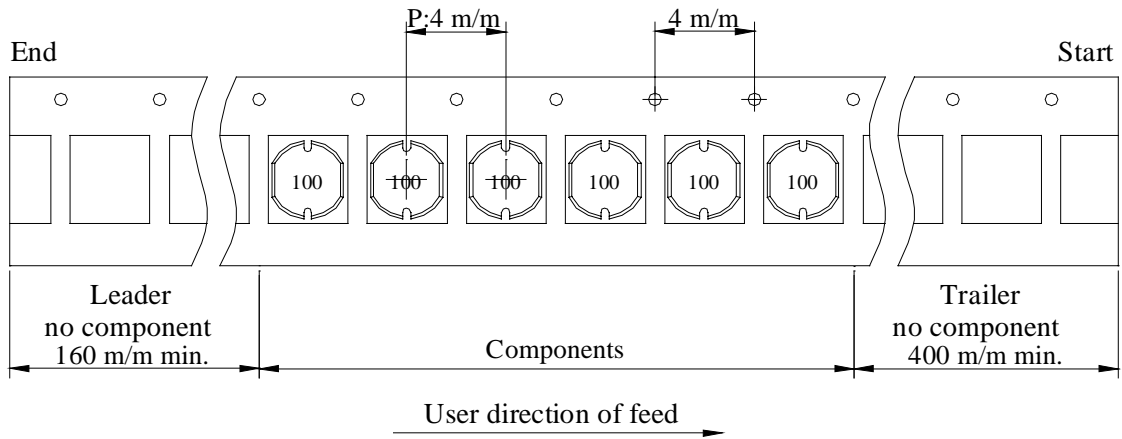
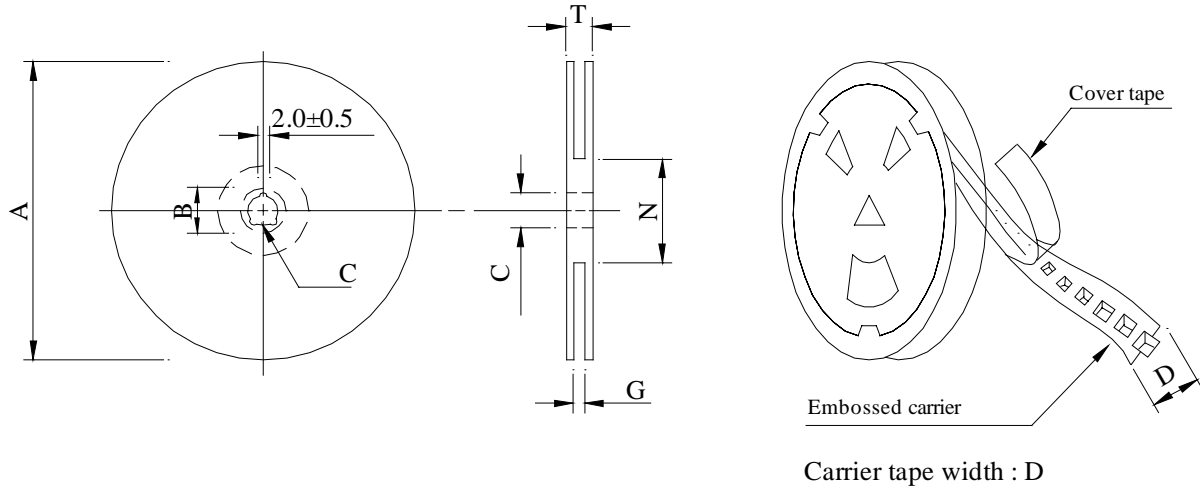
REF :

PAGE: 3

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□L□
		ABC'S ITEM NO.	

## PACKAGING INFORMATION

( 1 ) Configuration



( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 <sup>+0</sup>	50 <sup>-0</sup>	12.5

( 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)
SR3015	2,000	600	07 - 08	100,000	11.9	42 x 41 x 24

AE-001A

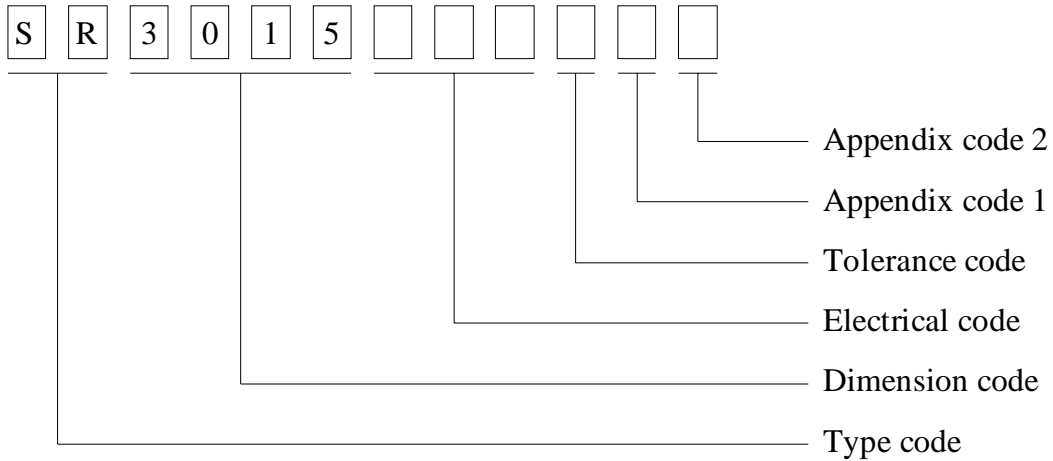
# SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□L□
		ABC'S ITEM NO.	

**. 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	Remark
A	Empty	Empty	
B	T / R ( Reel package )	2,000 pcs	

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□L□
		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%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Room temp.</td> <td style="text-align: center; border: none;">—————&gt;</td> <td style="text-align: center; border-bottom: 1px solid black;">-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: 5px 0 0 20px;"> </td> </tr> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Room temp.</td> <td style="text-align: center; border: none;">—————&gt;</td> <td style="text-align: center; border-bottom: 1px solid black;">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															

AE-001A



# SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR3015□□□□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

287806002 Page 1 of 2

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 LZI.  
LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signi-  
fies 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.

287806002 Page 2 of 2

OBMW2E174837  
September 8, 2000

AE-001A

