

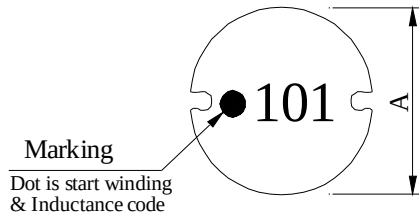
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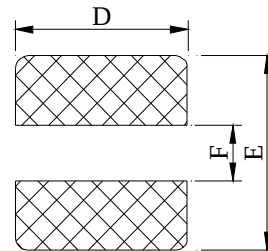
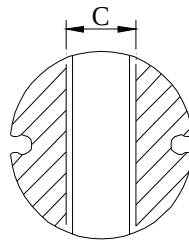
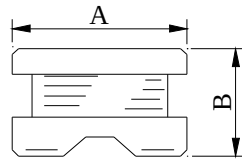
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

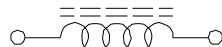


A	: 13.0±0.7	m/m
B	: 7.0±0.3	m/m
C	: 5.0 ref.	m/m
D	: 14.0 ref.	m/m
E	: 14.0 ref.	m/m
F	: 4.5 ref.	m/m



(PCB Pattern)

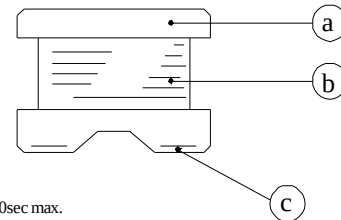
II . SCHEMATIC DIAGRAM :



III . MATERIALS :

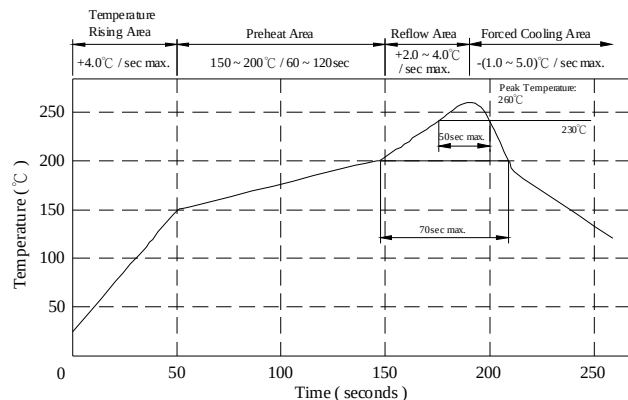
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class F & H)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements

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



IV . GENERAL SPECIFICATION :

- a . Temp. rise : 40℃ max.
- b . Rated current : Base on temp. rise
& $\Delta L / L0A=10\%$ typ.
- c . Storage temp. : -40℃ ----+125℃
- d . Operating temp. : -40℃ ----+105℃
- e . Resistance to solder heat : 260℃.10 secs.



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V . ELECTRICAL CHARACTERISITCS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (m Ω) max.	Irms (A)	Isat (A)
			L	Q				
SR13071R5ML□-□□□	1.5 $\pm$ 20%	20	100K	7.960M	65.0	5.0	9.50	20.00
SR13072R2ML□-□□□	2.2 $\pm$ 20%	22	100K	7.960M	50.0	6.0	9.00	18.00
SR13072R7ML□-□□□	2.7 $\pm$ 20%	24	100K	7.960M	40.0	8.0	8.20	16.00
SR13073R3ML□-□□□	3.3 $\pm$ 20%	26	100K	7.960M	38.0	8.7	7.50	15.00
SR13074R7ML□-□□□	4.7 $\pm$ 20%	25	100K	7.960M	36.0	10.0	7.00	13.00
SR13075R6ML□-□□□	5.6 $\pm$ 20%	24	100K	7.960M	28.0	15.0	6.50	11.00
SR13076R8ML□-□□□	6.8 $\pm$ 20%	24	100K	7.960M	26.0	17.0	6.00	10.50
SR13078R2ML□-□□□	8.2 $\pm$ 20%	24	100K	7.960M	24.0	19.0	5.80	9.80
SR1307100ML□-□□□	10.0 $\pm$ 20%	22	100K	2.520M	22.0	21.0	5.60	9.20
SR1307120ML□-□□□	12.0 $\pm$ 20%	25	100K	2.520M	20.0	30.0	4.80	8.00
SR1307150ML□-□□□	15.0 $\pm$ 20%	28	100K	2.520M	17.0	34.0	4.50	7.50
SR1307180ML□-□□□	18.0 $\pm$ 20%	28	100K	2.520M	16.0	36.0	4.20	7.00
SR1307220ML□-□□□	22.0 $\pm$ 20%	40	100K	2.520M	15.0	47.0	3.60	6.50
SR1307270ML□-□□□	27.0 $\pm$ 20%	35	100K	2.520M	11.0	60.0	3.30	5.50
SR1307330KL□-□□□	33.0 $\pm$ 10%	35	100K	2.520M	10.0	65.0	3.10	5.00
SR1307390KL□-□□□	39.0 $\pm$ 10%	28	100K	2.520M	9.0	75.0	2.90	4.60
SR1307470KL□-□□□	47.0 $\pm$ 10%	24	100K	2.520M	7.5	82.0	2.70	4.20
SR1307560KL□-□□□	56.0 $\pm$ 10%	22	100K	2.520M	7.2	100.0	2.50	3.80
SR1307680KL□-□□□	68.0 $\pm$ 10%	24	100K	2.520M	7.0	120.0	2.30	3.50
SR1307820KL□-□□□	82.0 $\pm$ 10%	18	100K	2.520M	6.0	140.0	2.10	3.20
SR1307101KL□-□□□	100.0 $\pm$ 10%	25	100K	0.796M	5.8	180.0	1.90	3.00
SR1307121KL□-□□□	120.0 $\pm$ 10%	20	100K	0.796M	5.5	210.0	1.80	2.80
SR1307151KL□-□□□	150.0 $\pm$ 10%	20	100K	0.796M	4.5	250.0	1.60	2.60
SR1307181KL□-□□□	180.0 $\pm$ 10%	18	100K	0.796M	4.0	280.0	1.50	2.30
SR1307221KL□-□□□	220.0 $\pm$ 10%	15	100K	0.796M	3.8	360.0	1.30	2.10
SR1307271KL□-□□□	270.0 $\pm$ 10%	15	100K	0.796M	3.5	410.0	1.20	1.80
SR1307331KL□-□□□	330.0 $\pm$ 10%	15	100K	0.796M	3.2	520.0	1.10	1.60
SR1307391KL□-□□□	390.0 $\pm$ 10%	12	100K	0.796M	2.5	600.0	1.00	1.50
SR1307471KL□-□□□	470.0 $\pm$ 10%	12	100K	0.796M	2.2	720.0	0.90	1.40
SR1307561KL□-□□□	560.0 $\pm$ 10%	10	100K	0.796M	2.0	880.0	0.85	1.30
SR1307681KL□-□□□	680.0 $\pm$ 10%	10	100K	0.796M	1.6	1000.0	0.80	1.20
SR1307821KL□-□□□	820.0 $\pm$ 10%	10	100K	0.796M	1.5	1300.0	0.75	1.10
SR1307102KL□-□□□	1000.0 $\pm$ 10%	10	100K	0.252M	1.4	1600.0	0.65	1.00

- 1). □ : Packaging information... [A] : Bulk [B] : Taping Reel
- 2). "- □□□ " : Reference code
- 3). Inductance Test Freq. at 100KHz / 0.1V.
- 4). Irms Base on $\Delta T = 40^{\circ}\text{C}$ max.
- 5). Isat Base on $\Delta L/L0A = 10\%$ typ.

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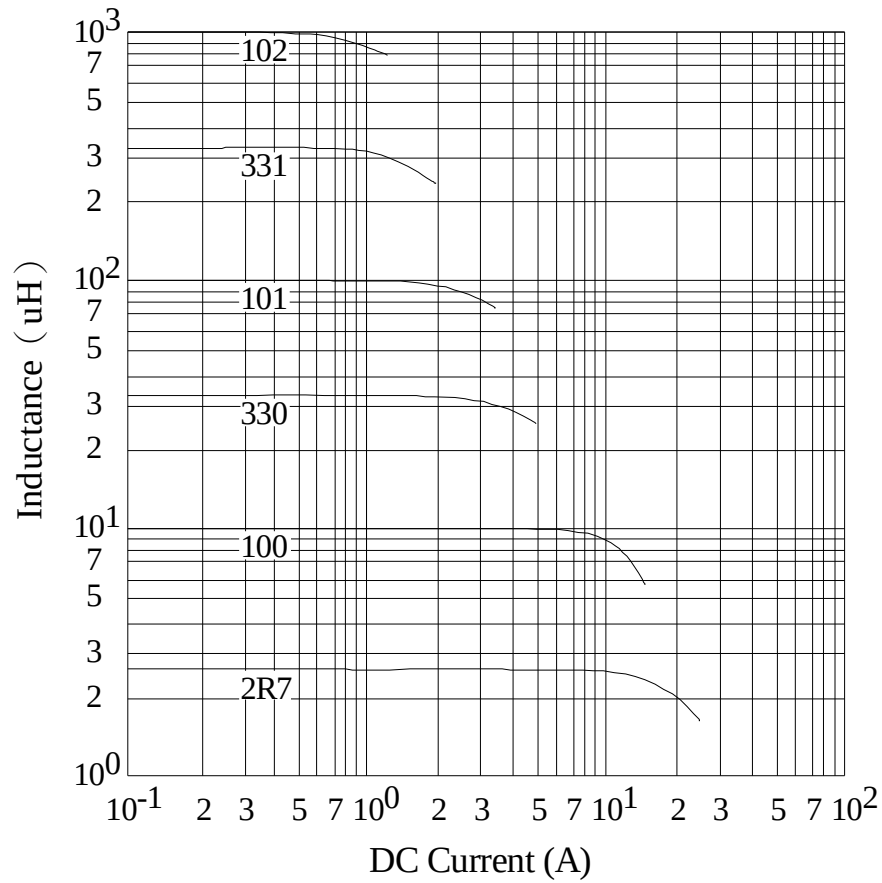
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NAME		ABC'S ITEM NO.	

VI . INDUCTANCE VS. DC CURRENT CURVE :



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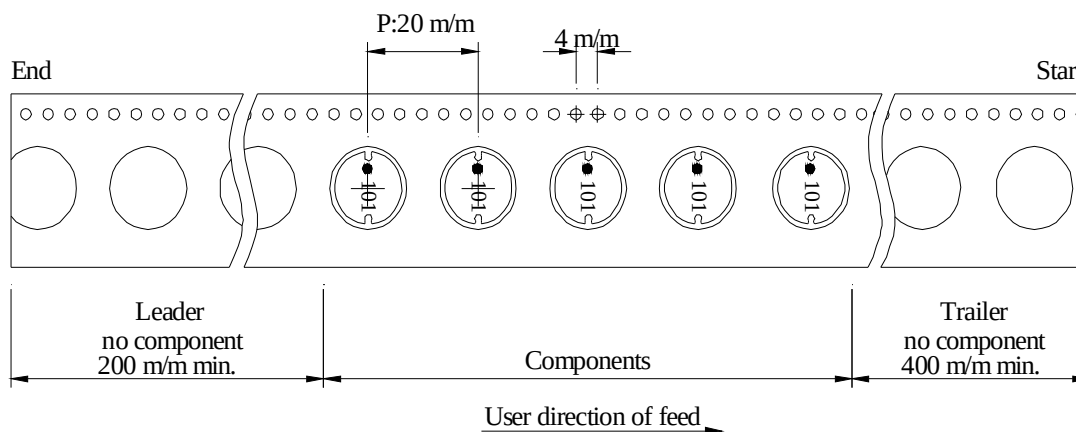
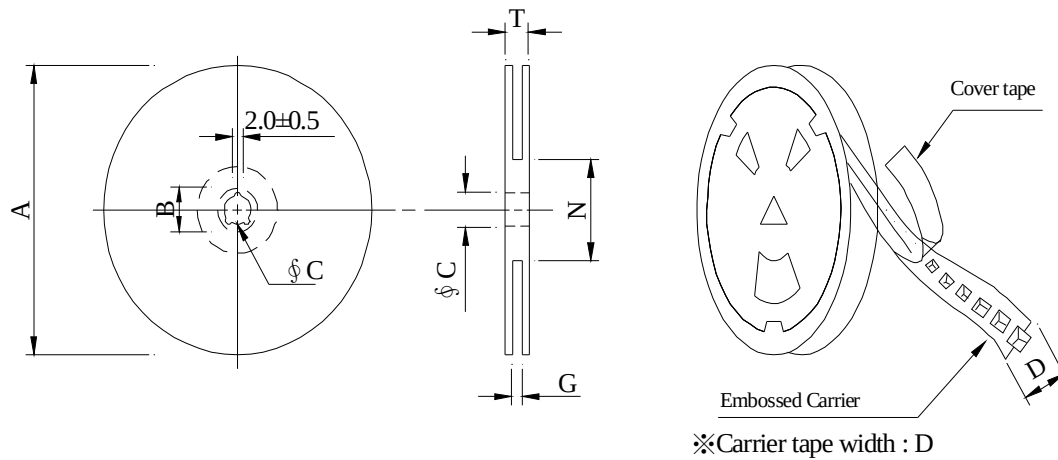
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PROD.	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
NAME		ABC'S ITEM NO.	

VII . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	50 ⁻⁰	30.4

(3) QTY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SR1307	400	1,800	13 - 24	1,600	9.5	40 x 40 x 24

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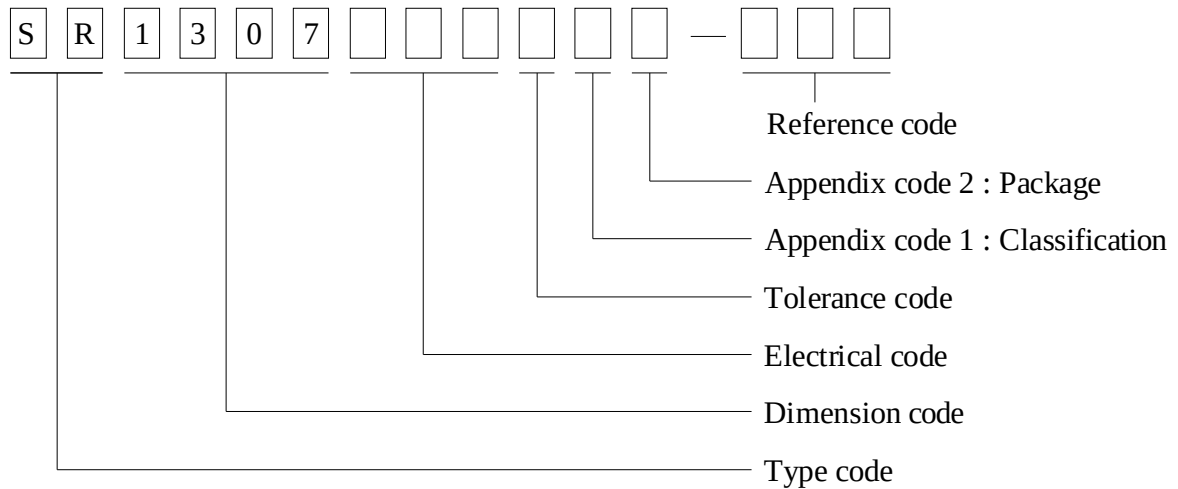
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VIII . DWGING NUMBER EXPRESSION :



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)	400 pcs	

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IX . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155℃ / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5℃ Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. $\longrightarrow$ -40 ℃ 15 minutes $\longrightarrow$ 30 minutes Room temp. $\longrightarrow$ +105 ℃ 15 minutes $\longrightarrow$ 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 105±5℃ Applied current : Per spec. Time : 96 hours

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X . 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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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 - 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.

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X . UL CARD :

OBMW2		October 06, 2005			
Magnet Wire-Component					
ELEKTRISOLA (MALAYSLA) SDN BHD		E143312			
JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG					
DARUL MAKMUR MALAYSIA					
Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 180	E180	Polyesterimide (solderable)	—	MW-77	180
Amldestar 200	A200	Polyesterimide	—	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 130
Polysol 155	P155, G155	Polyurethane	—	MW-79, MW-75	155, 130
Polysol 155g	Pg155	Polyurethane	—	MW-75	130
Polysol 155p	Pp155, Gp155	Polyurethane	—	MW-79	155
Polysol 160	P160	Polyurethane	—	MW-79	155
Polysol 180	P180, G180	Polyurethane	—	MW-82	180
Polysol 170	P170 or G170	Polyurethane	—	MW-79	155
Polysol-N 180	PN180	Polyurethane	Nylon	MW-83	180
Polysol P155p	P155p	Polyurethane	—	MW-79	155

Marking : Company name, material designation or marked designation and factory identification on package ok reel

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.