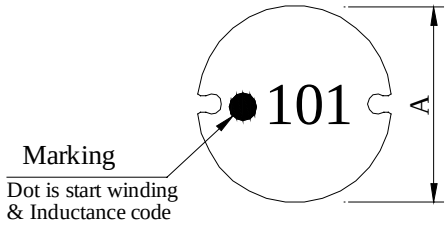
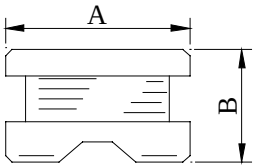
SPECIFICATION FOR APPROVAL

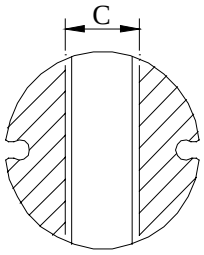
REF :

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

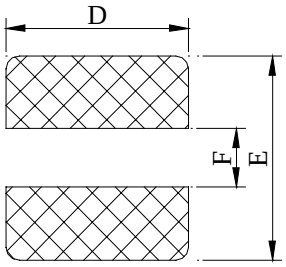
Ⅰ . CONFIGURATION & DIMENSIONS：





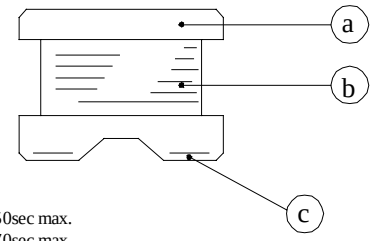


A	:	13.0±0.7	m/m
B	:	7.0±0.3	m/m
C	:	5.0 ref.	m/m
D	:	14.0 ref.	m/m
E	:	14.0 ref.	m/m
F	:	4.5 ref.	m/m



(PCB Pattern)

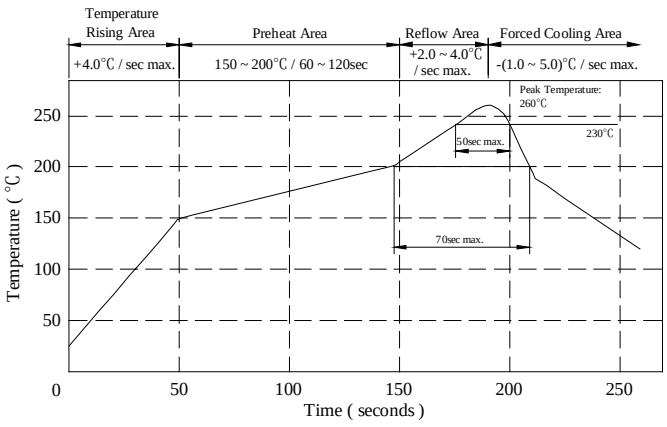
Ⅱ . SCHEMATIC DIAGRAM：



Ⅲ . MATERIALS：

a . Core：Ferrite DR core
b . Wire ：Enamelled copper wire (class F)
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.



Ⅳ . GENERAL SPECIFICATION：

a . Temp. rise ：40℃ 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.

SPECIFICATION FOR APPROVAL

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

Ⅴ . ELECTRICAL CHARACTERISITCS：

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

1). □：Packaging information… A：Bulk B：Taping Reel

2). Inductance Test Freq. at 100KHz / 0.1V.

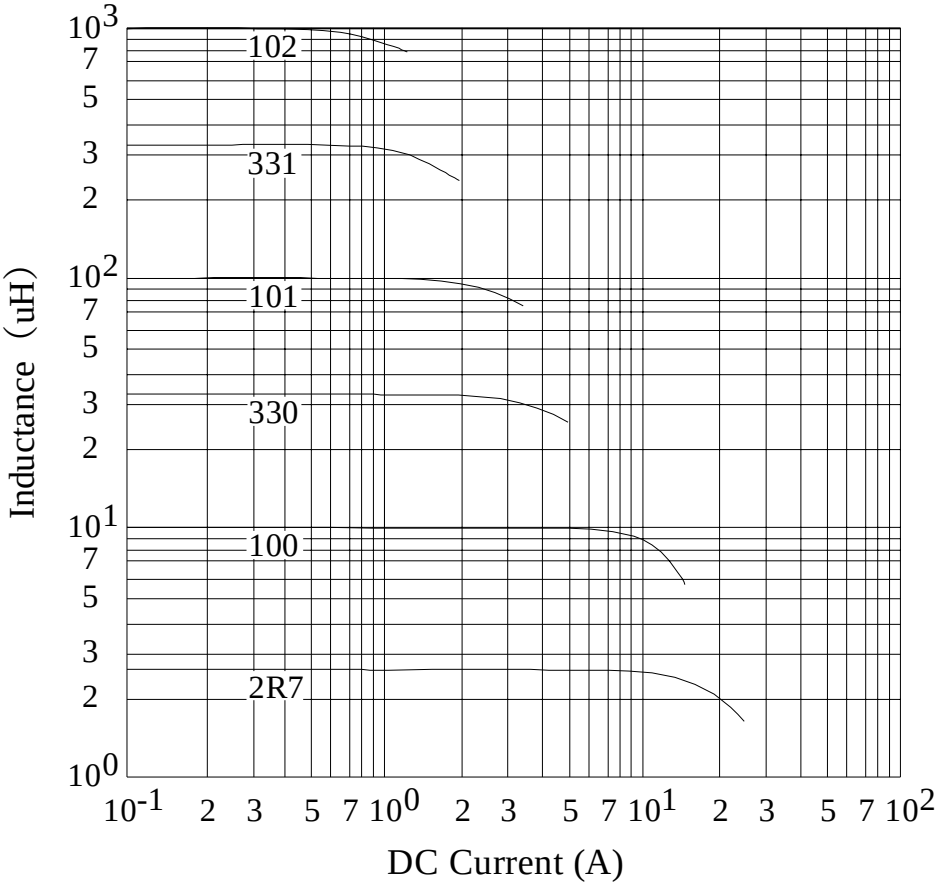
3). Irms Base on △T = 40℃ max.

4). Isat Base on △L/L0A = 10% typ.

SPECIFICATION FOR APPROVAL

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

Ⅵ . INDUCTANCE VS. DC CURRENT CURVE：



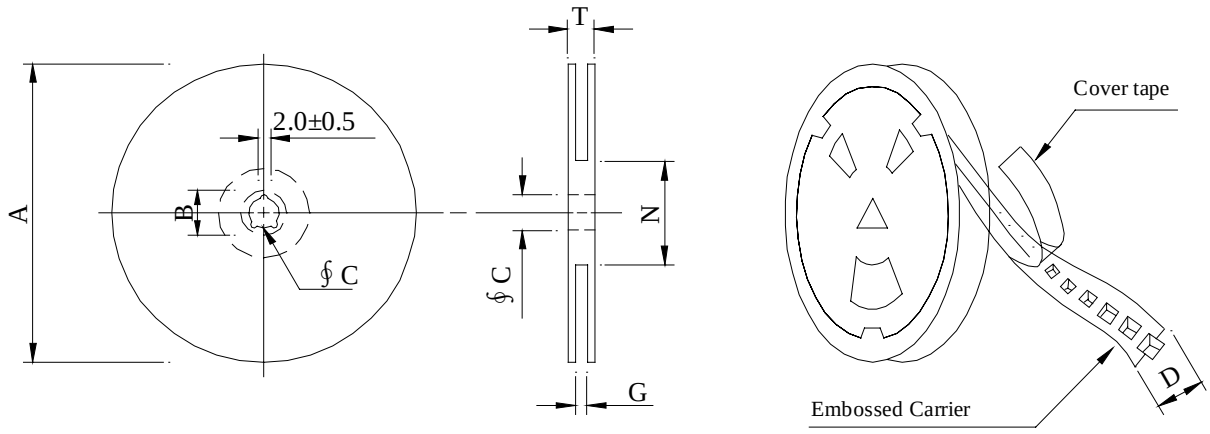
千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

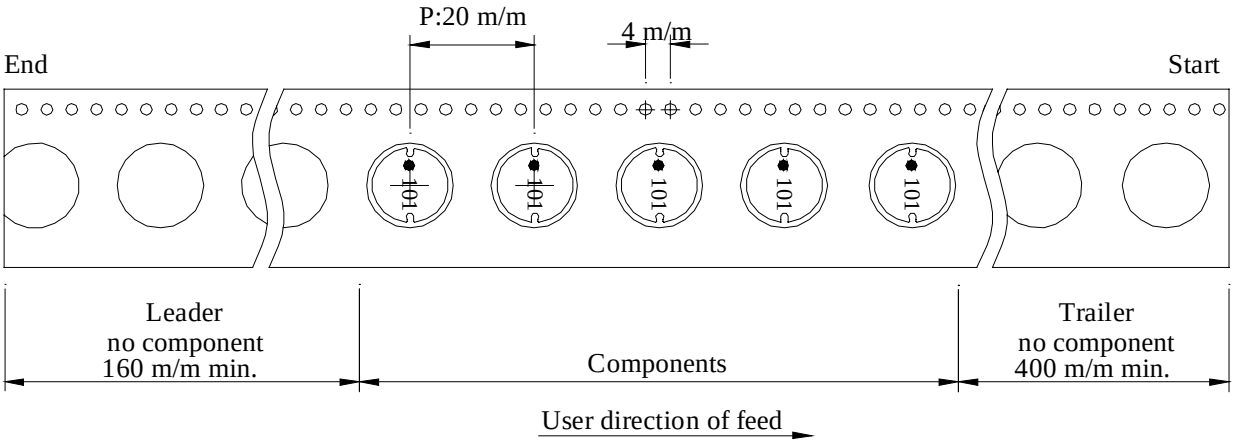
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□
		ABC'S ITEM NO.	

Ⅶ . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(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

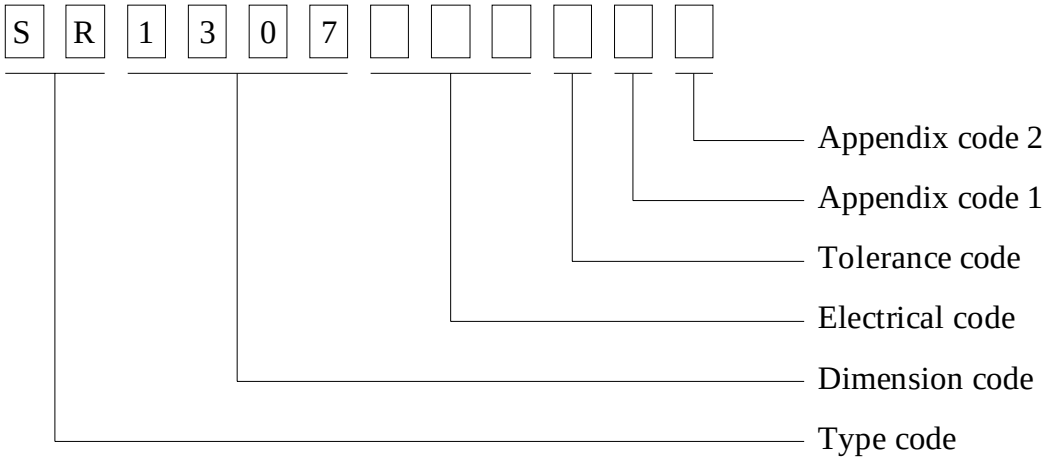
(3) Q'TY & G.W. Per package

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

SPECIFICATION FOR APPROVAL

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

Ⅷ . 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)	400 pcs	

SPECIFICATION FOR APPROVAL

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

IX . 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%	Room temp. 15 minutes → -25±2 ℃ 30 minutes Room temp. 15 minutes → 85±2 ℃ 30 minutes Total : 50 cycles
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

SPECIFICATION FOR APPROVAL

REF : PAGE: 7

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

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	Coat Typ 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	Coat Typ 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 magned 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.

287806002 Page 2 of 2

OBMW2/E174837
September 8 , 2000