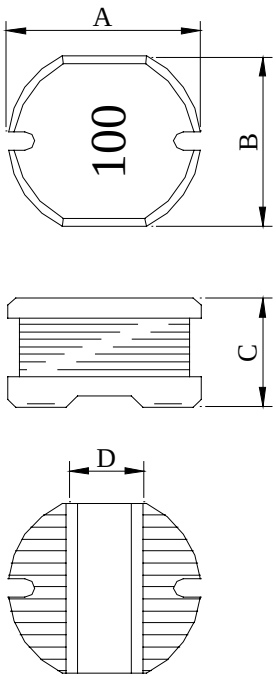
SPECIFICATION FOR APPROVAL

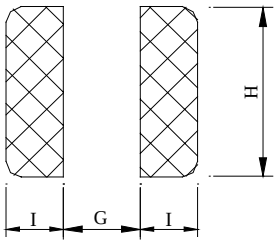
REF :

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□L□
		ABC'S ITEM NO.	

Ⅰ . CONFIGURATION & DIMENSIONS：

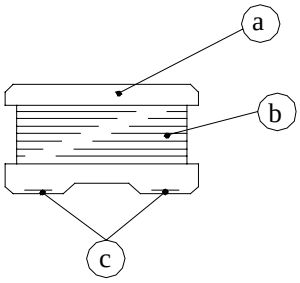


A	:	3.0±0.3	m/m
B	:	2.8±0.3	m/m
C	:	2.5±0.3	m/m
D	:	0.9 typ.	m/m
G	:	0.8 ref.	m/m
H	:	3.0 ref.	m/m
I	:	1.4 ref.	m/m



(PCB Pattern)

Ⅱ . SCHEMATIC DIAGRAM：



Ⅲ . MATERIALS：

a . Core：Ferrite DR core

b . Wire ：Enamelled copper wire (class H)

c . Terminal： Ag/Ni/Sn

d . Remark：Lead content 200ppm max.
include ferrite

Ⅳ . GENERAL SPECIFICATION：

a . Temp. rise ：40℃ max.

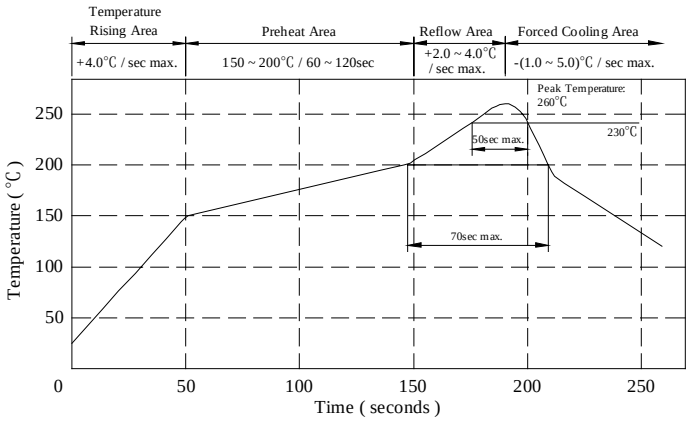
b . Rated current：Base on temp. rise
& △L / LOA=10% max.

c . Storage temp.：-40℃ ----+125℃

d . Operating temp.：-40℃----+105℃

e . Resistance to solder heat：260℃.10 secs.

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



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ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□L□
		ABC'S ITEM NO.	

Ⅴ . ELECTRICAL CHARACTERISTICS：

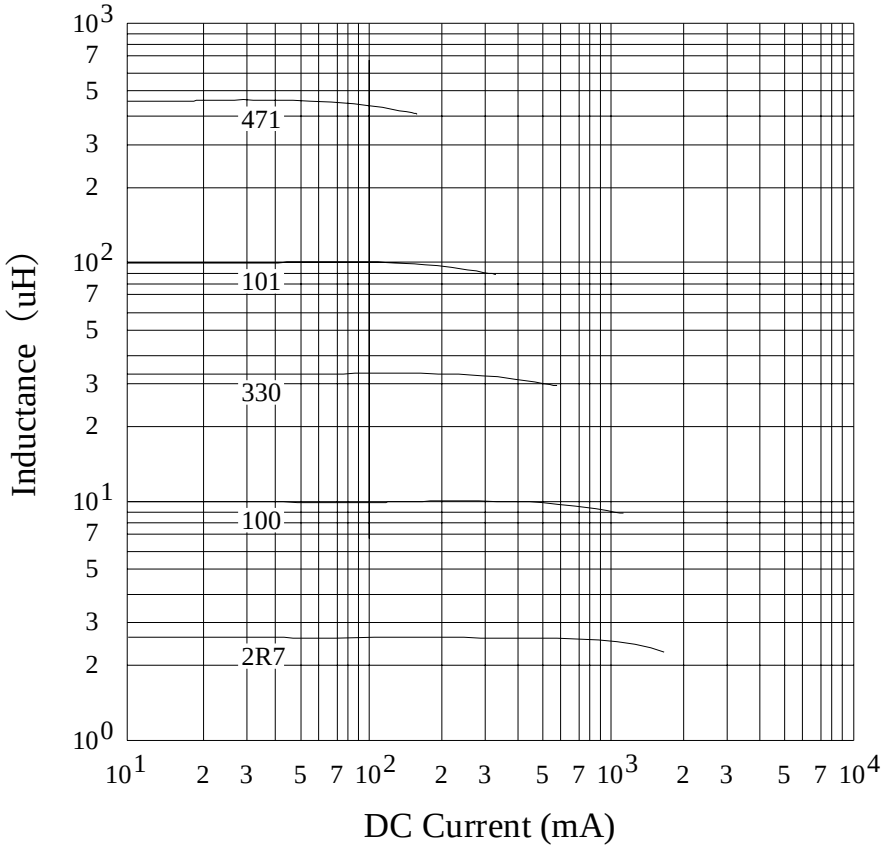
DWG No.	Inductance (μH)	Q (ref.)	Test Freq. L (Hz)/0.1V	Test Freq. Q (MHz)	SRF (typ.)	RDC Ω (max.)	Irms (A) △T = 40℃ (max.)	Isat (A) △L / L0A = 10% (typ.)
SR03021R0ML□	1.0±20%	20	100K	7.96	125.0	0.06	2.100	2.700
SR03021R2ML□	1.2±20%	22	100K	7.96	100.0	0.07	2.000	2.500
SR03021R5ML□	1.5±20%	23	100K	7.96	95.0	0.07	1.900	2.300
SR03021R8ML□	1.8±20%	23	100K	7.96	85.0	0.08	1.800	2.000
SR03022R2ML□	2.2±20%	22	100K	7.96	75.0	0.09	1.650	1.850
SR03022R7ML□	2.7±20%	22	100K	7.96	72.0	0.10	1.500	1.700
SR03023R3ML□	3.3±20%	23	100K	7.96	68.0	0.11	1.400	1.600
SR03023R9ML□	3.9±20%	24	100K	7.96	50.0	0.12	1.300	1.500
SR03024R7ML□	4.7±20%	18	100K	7.96	45.0	0.15	1.200	1.350
SR03025R6ML□	5.6±20%	18	100K	7.96	42.0	0.16	1.100	1.300
SR03026R8ML□	6.8±20%	18	100K	7.96	40.0	0.18	1.000	1.200
SR03028R2ML□	8.2±20%	16	100K	7.96	35.0	0.20	0.900	1.050
SR0302100ML□	10.0±20%	18	100K	2.52	34.0	0.25	0.800	0.900
SR0302120ML□	12.0±20%	15	100K	2.52	33.0	0.28	0.750	0.850
SR0302150ML□	15.0±20%	20	100K	2.52	32.0	0.40	0.650	0.800
SR0302180ML□	18.0±20%	18	100K	2.52	28.0	0.46	0.580	0.750
SR0302220ML□	22.0±20%	23	100K	2.52	22.0	0.66	0.520	0.650
SR0302270ML□	27.0±20%	23	100K	2.52	20.0	0.75	0.480	0.550
SR0302330KL□	33.0±10%	20	100K	2.52	18.0	0.85	0.420	0.500
SR0302390KL□	39.0±10%	24	100K	2.52	18.0	1.12	0.380	0.450
SR0302470KL□	47.0±10%	23	100K	2.52	17.0	1.27	0.360	0.400
SR0302560KL□	56.0±10%	18	100K	2.52	16.0	1.45	0.340	0.350
SR0302680KL□	68.0±10%	24	100K	2.52	14.0	1.85	0.300	0.320
SR0302820KL□	82.0±10%	24	100K	2.52	12.0	2.10	0.280	0.300
SR0302101KL□	100.0±10%	40	100K	0.796	10.0	2.85	0.260	0.280
SR0302121KL□	120.0±10%	40	100K	0.796	10.0	3.20	0.220	0.250
SR0302151KL□	150.0±10%	38	100K	0.796	9.0	4.60	0.200	0.230
SR0302181KL□	180.0±10%	45	100K	0.796	8.5	5.00	0.185	0.210
SR0302221KL□	220.0±10%	40	100K	0.796	8.0	5.70	0.170	0.190
SR0302271KL□	270.0±10%	45	100K	0.796	7.0	8.60	0.150	0.170
SR0302331KL□	330.0±10%	40	100K	0.796	6.0	10.00	0.130	0.150
SR0302391KL□	390.0±10%	40	100K	0.796	5.5	10.80	0.120	0.140
SR0302471KL□	470.0±10%	42	100K	0.796	5.0	14.30	0.105	0.130
SR0302561KL□	560.0±10%	43	100K	0.796	4.8	16.00	0.095	0.120
SR0302681KL□	680.0±10%	43	100K	0.796	4.3	18.00	0.085	0.110
SR0302821KL□	820.0±10%	45	100K	0.796	4.0	22.50	0.080	0.100
SR0302102KL□	1000.0±10%	40	100K	0.252	3.2	26.00	0.070	0.090
SR0302122KL□	1200.0±10%	40	100K	0.252	3.0	30.00	0.060	0.080

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

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□L□
		ABC'S ITEM NO.	

Ⅵ．INDUCTANCE VS. DC CURRENT CURVE：



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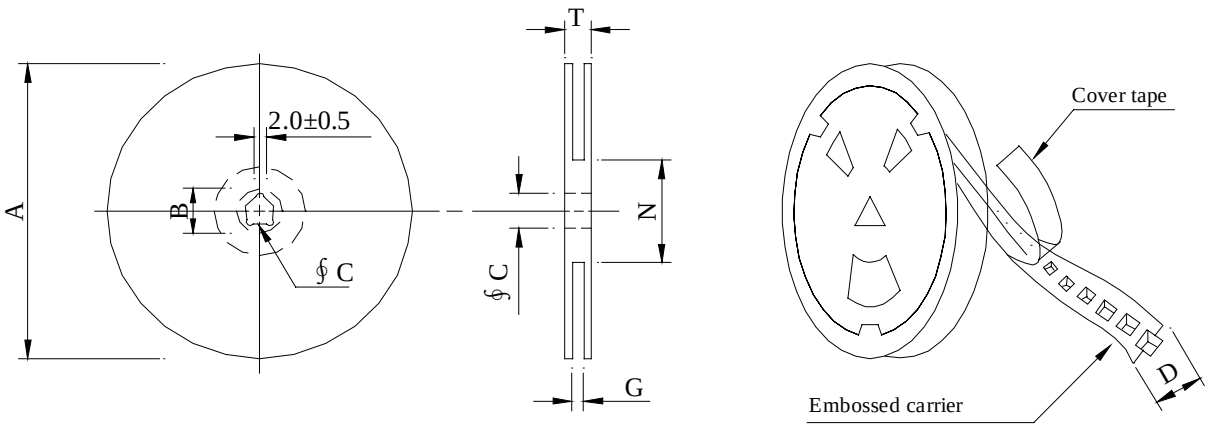
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

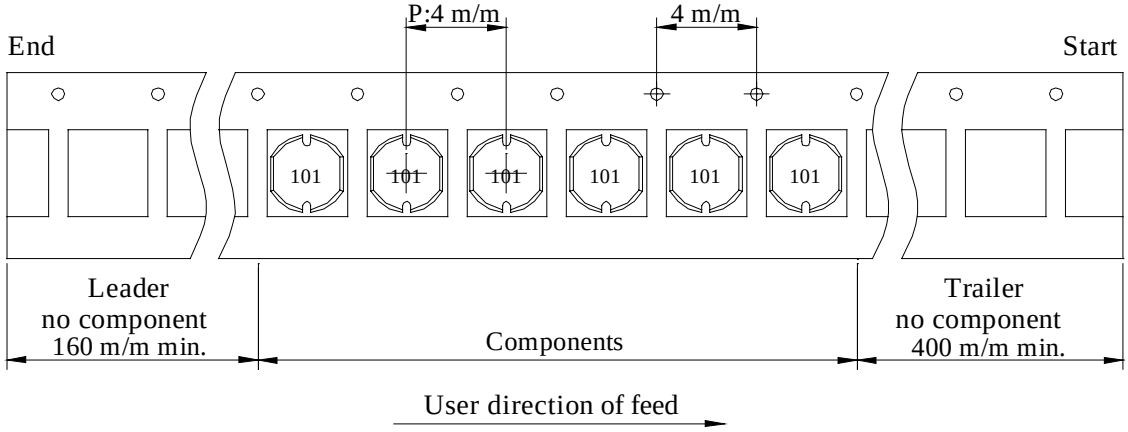
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□L□
		ABC'S ITEM NO.	

Ⅶ．PACKAGING INFORMATION：

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10^{+0}	50^{-0}	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)
SR0302	1,000	300	07 - 08	50,000	5.8	42 x 41 x 24

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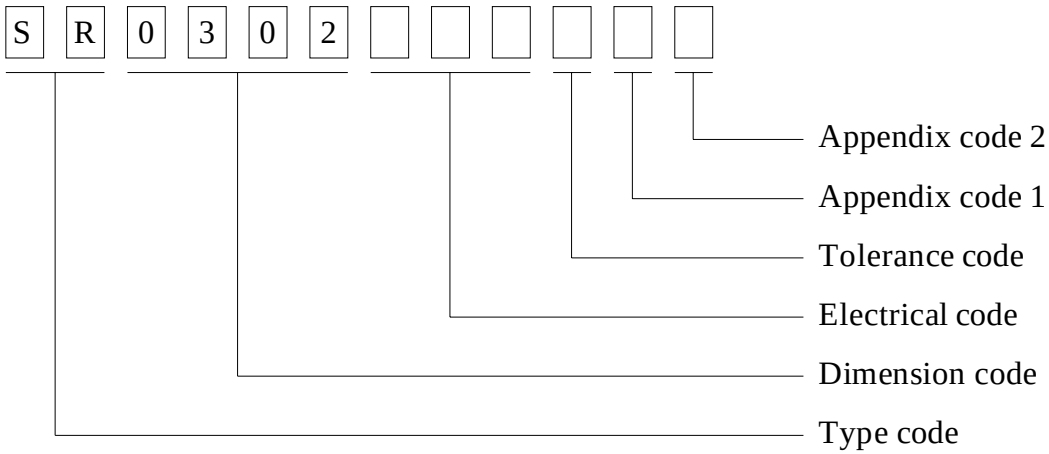
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□L□
		ABC'S ITEM NO.	

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)	1000 pcs	

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□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

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0302□□□□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

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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.

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September 8 , 2000