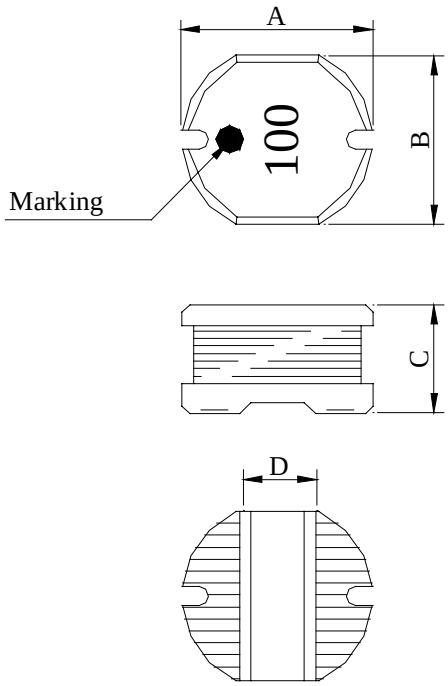
SPECIFICATION FOR APPROVAL

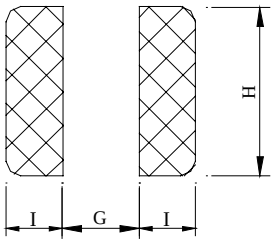
REF :

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□L□
		ABC'S ITEM NO.	

Ⅰ . CONFIGURATION & DIMENSIONS：

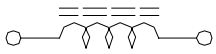


A	:	5.0±0.3	m/m
B	:	4.5±0.3	m/m
C	:	3.0±0.3	m/m
D	:	2.0 ref.	m/m
G	:	1.9 ref.	m/m
H	:	5.0 ref.	m/m
I	:	1.8 ref.	m/m



(PCB Pattern)

Ⅱ . SCHEMATIC DIAGRAM：



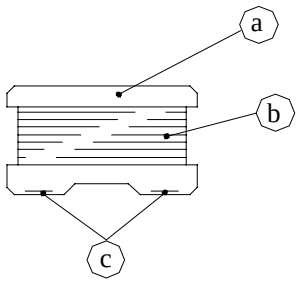
Ⅲ . MATERIALS：

a . Core：Ferrite DR core

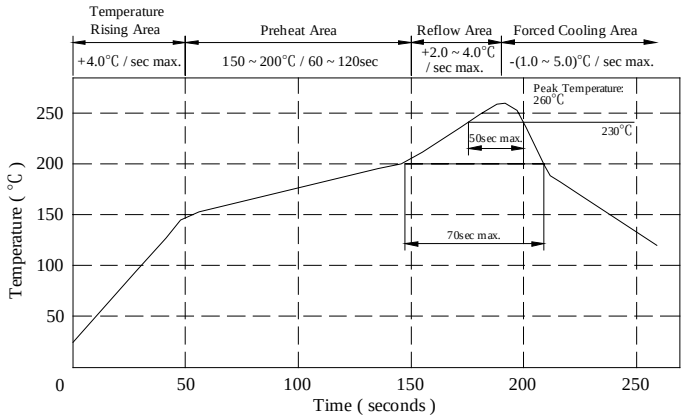
b . Wire ：Enamelled copper wire (class F)

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% max.

c . Storage temp.：-40℃ ----+125℃

d . Operating temp.：-40℃----+105℃

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

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SPECIFICATION FOR APPROVAL

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□L□
		ABC'S ITEM NO.	

Ⅴ . ELECTRICAL CHARACTERISTICS：

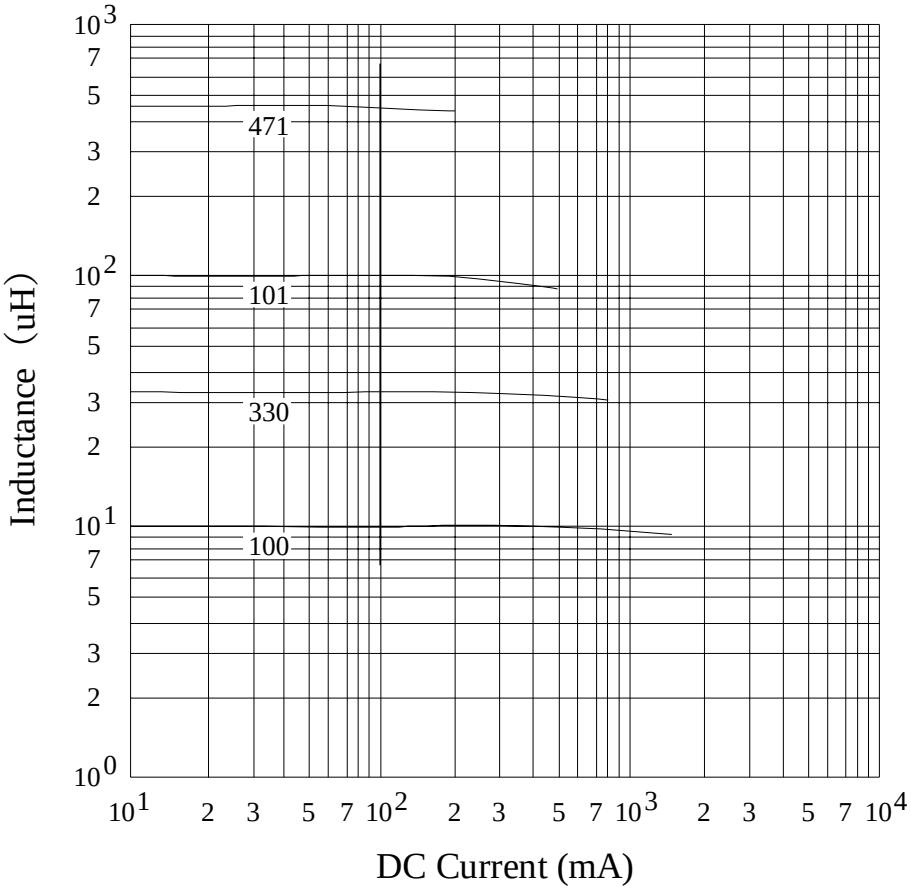
DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR0503100ML□	10.0±20%	20	1K	2.520M	30.00	0.13	1.300
SR0503120ML□	12.0±20%	20	1K	2.520M	29.00	0.16	1.200
SR0503150ML□	15.0±20%	20	1K	2.520M	27.00	0.19	1.050
SR0503180ML□	18.0±20%	20	1K	2.520M	24.00	0.21	0.950
SR0503220ML□	22.0±20%	20	1K	2.520M	22.00	0.28	0.900
SR0503270ML□	27.0±20%	20	1K	2.520M	20.00	0.32	0.800
SR0503330KL□	33.0±10%	15	1K	2.520M	17.50	0.38	0.700
SR0503390KL□	39.0±10%	15	1K	2.520M	17.00	0.42	0.650
SR0503470KL□	47.0±10%	20	1K	2.520M	14.00	0.60	0.600
SR0503560KL□	56.0±10%	20	1K	2.520M	13.00	0.71	0.500
SR0503680KL□	68.0±10%	20	1K	2.520M	12.00	0.76	0.450
SR0503820KL□	82.0±10%	15	1K	2.520M	10.00	0.88	0.420
SR0503101KL□	100.0±10%	40	1K	0.796M	8.50	1.60	0.400
SR0503121KL□	120.0±10%	40	1K	0.796M	8.00	1.70	0.370
SR0503151KL□	150.0±10%	40	1K	0.796M	7.20	2.00	0.330
SR0503181KL□	180.0±10%	40	1K	0.796M	6.90	2.30	0.300
SR0503221KL□	220.0±10%	35	1K	0.796M	6.20	2.50	0.250
SR0503271KL□	270.0±10%	35	1K	0.796M	5.70	2.90	0.230
SR0503331KL□	330.0±10%	30	1K	0.796M	5.30	3.30	0.210
SR0503391KL□	390.0±10%	30	1K	0.796M	4.90	3.70	0.190
SR0503471KL□	470.0±10%	30	1K	0.796M	4.60	4.90	0.180
SR0503561KL□	560.0±10%	30	1K	0.796M	4.20	5.70	0.160
SR0503681KL□	680.0±10%	30	1K	0.796M	3.90	7.50	0.140
SR0503821KL□	820.0±10%	40	1K	0.796M	3.30	10.00	0.120
SR0503102KL□	1000.0±10 %	40	1K	0.252M	3.10	11.50	0.110
SR0503122JL□	1200.0± 5%	40	1K	0.252M	3.00	12.00	0.063
SR0503152JL□	1500.0± 5%	40	1K	0.252M	2.40	13.00	0.059
SR0503182JL□	1800.0± 5%	40	1K	0.252M	2.20	15.00	0.055
SR0503222JL□	2200.0± 5%	40	1K	0.252M	2.30	22.00	0.053
SR0503272JL□	2700.0± 5%	40	1K	0.252M	2.10	26.00	0.050
SR0503332JL□	3300.0± 5%	40	1K	0.252M	1.90	38.00	0.045
SR0503392JL□	3900.0± 5 %	40	1K	0.252M	1.50	40.00	0.042
SR0503472JL□	4700.0± 5%	40	1K	0.252M	1.40	48.00	0.040
SR0503562JL□	5600.0± 5%	40	1K	0.252M	1.30	72.00	0.038
SR0503682JL□	6800.0± 5%	40	1K	0.252M	1.20	80.00	0.034
SR0503822JL□	8200.0± 5%	40	1K	0.252M	1.00	92.00	0.030
SR0503103JL□	10000.0± 5%	30	1K	79.60K	0.95	110.00	0.027
SR0503123JL□	12000.0± 5%	30	1K	79.60K	0.85	148.00	0.025
SR0503153JL□	15000.0± 5%	30	1K	79.60K	0.80	168.00	0.020

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

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□L□
		ABC'S ITEM NO.	

Ⅵ. INDUCTANCE VS. DC CURRENT CURVE：



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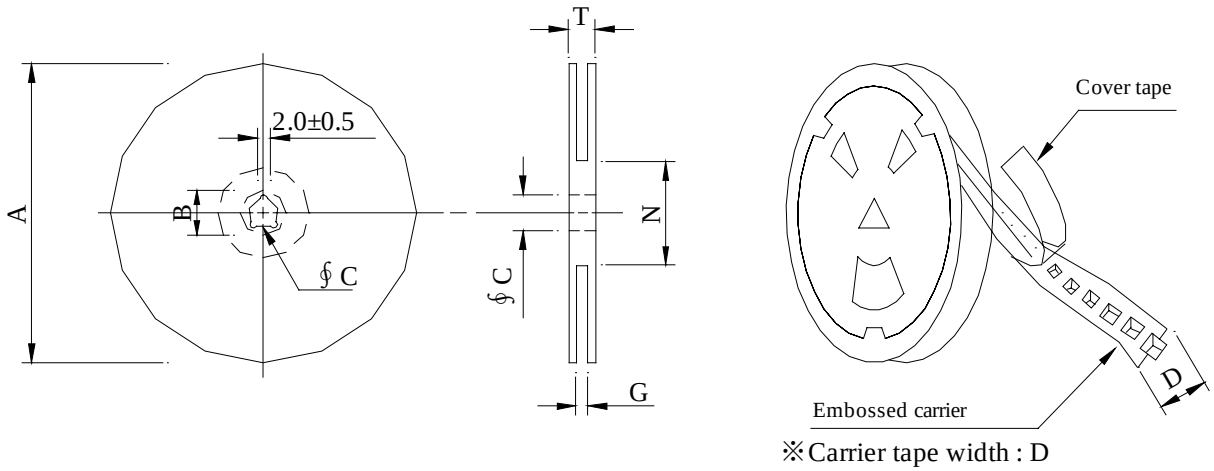
SPECIFICATION FOR APPROVAL

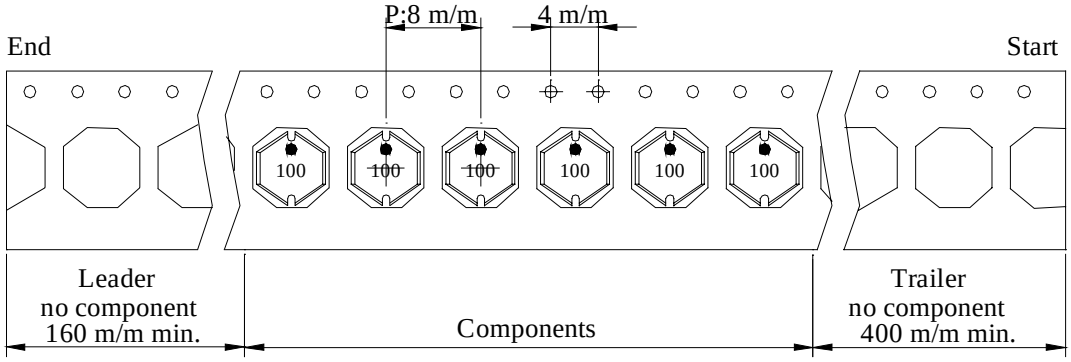
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□L□
		ABC'S ITEM NO.	

Ⅶ．PACKAGING INFORMATION：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14^{+0}	50^{-0}	16.5
13 - 12	330	21±0.8	13±0.5	12	14^{+0}	50^{-0}	18.4

(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)
SR0503	500	275	07 - 12	20,000	11.8	42 x 41 x 24
SR0503	2000	1185	13 - 12	16,000	10.3	40 x 40 x 24

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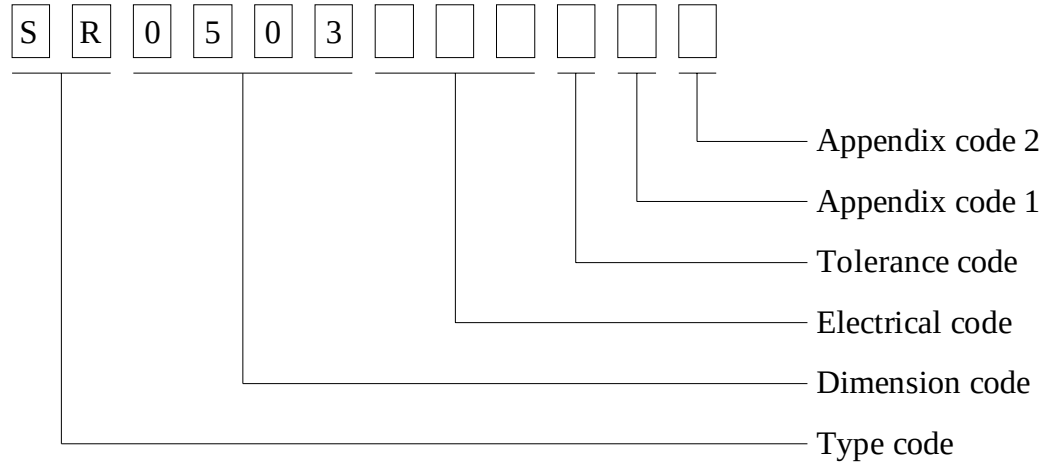
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□L□
		ABC'S ITEM NO.	

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 / B (Reel package)	500 pcs	
C	T / R (Reel package)	2000 pcs	

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□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

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0503□□□□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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OBMW2/E174837
September 8 , 2000