

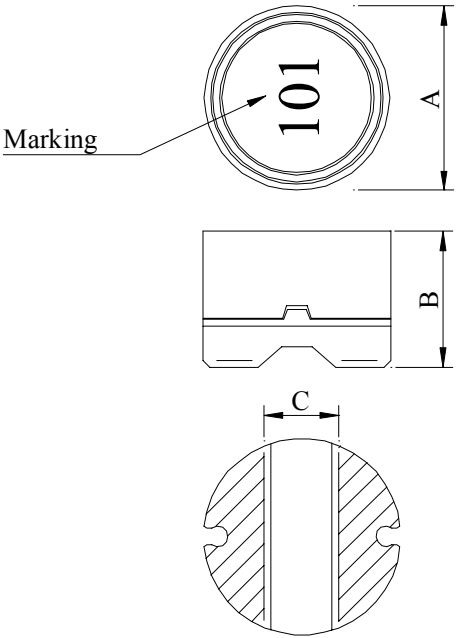
SPECIFICATION FOR APPROVAL

REF :

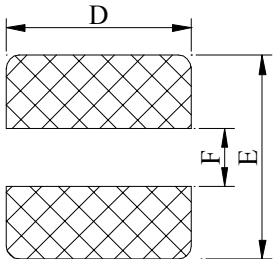
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS0704□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

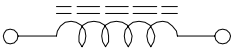


A	: 7.5±0.3	m/m
B	: 4.0±0.3	m/m
C	: 2.6 typ.	m/m
D	: 8.0 ref.	m/m
E	: 7.8 ref.	m/m
F	: 2.4 ref.	m/m



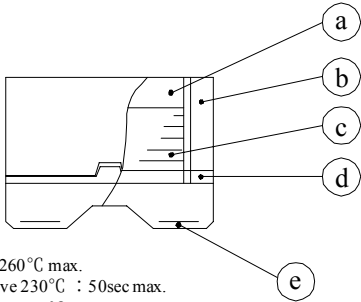
(PCB Pattern)

II . SCHEMATIC DIAGRAM :



III . MATERIALS :

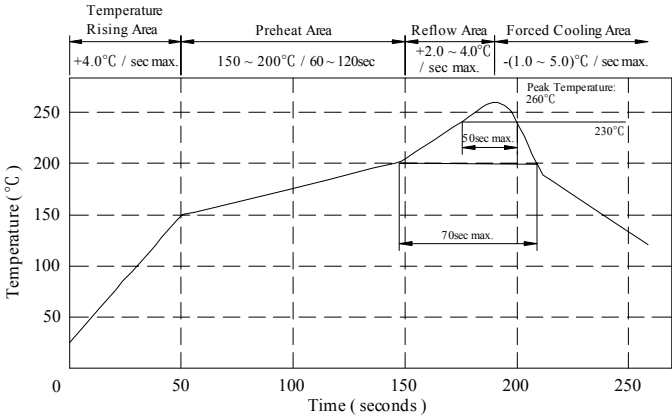
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (class F)
- d . Plastic : GAP Specer
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements



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

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 30°C max.
- b . Rated current : Base on temp. rise
& $\Delta L / LOA = 10\%$ typ.
- c . Storage temp. : -40°C ---- +125°C
- d . Operating temp. : -40°C ---- +105°C
- e . Resistance to solder heat : 260°C.10 secs.



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V . ELECTRICAL CHARACTERISTICS :

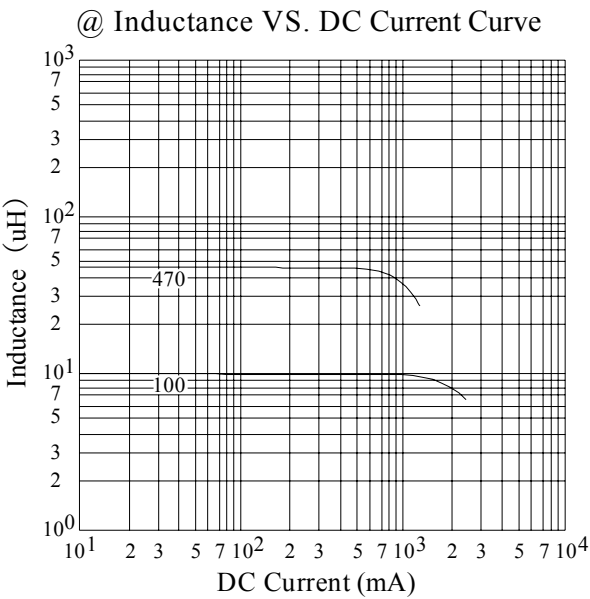
DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (m Ω) max.	Irms (A) max	Isat (A) typ.
			L (0.1V)	Q				
SS0704100YL□-□□□	10.0 $\pm$ 15%	30	100K	2.52M	25.0	65	1.70	1.90
SS0704120YL□-□□□	12.0 $\pm$ 15%	30	100K	2.52M	22.0	70	1.60	1.80
SS0704150YL□-□□□	15.0 $\pm$ 15%	30	100K	2.52M	20.0	95	1.40	1.60
SS0704180YL□-□□□	18.0 $\pm$ 15%	30	100K	2.52M	18.0	105	1.30	1.40
SS0704220YL□-□□□	22.0 $\pm$ 15%	28	100K	2.52M	16.0	136	1.20	1.30
SS0704270YL□-□□□	27.0 $\pm$ 15%	25	100K	2.52M	14.0	165	1.10	1.25
SS0704330KL□-□□□	33.0 $\pm$ 10%	25	100K	2.52M	13.0	180	1.05	1.15
SS0704390KL□-□□□	39.0 $\pm$ 10%	25	100K	2.52M	12.0	200	0.92	1.00
SS0704470KL□-□□□	47.0 $\pm$ 10%	25	100K	2.52M	11.0	260	0.80	0.90
SS0704560KL□-□□□	56.0 $\pm$ 10%	25	100K	2.52M	10.0	280	0.70	0.72
SS0704680KL□-□□□	68.0 $\pm$ 10%	25	100K	2.52M	9.0	350	0.65	0.68
SS0704820KL□-□□□	82.0 $\pm$ 10%	20	100K	2.52M	8.0	450	0.62	0.65
SS0704101KL□-□□□	100.0 $\pm$ 10%	40	100K	796K	7.5	560	0.55	0.62
SS0704121KL□-□□□	120.0 $\pm$ 10%	35	100K	796K	7.0	670	0.50	0.58
SS0704151KL□-□□□	150.0 $\pm$ 10%	40	100K	796K	6.5	800	0.46	0.54
SS0704181KL□-□□□	180.0 $\pm$ 10%	50	100K	796K	6.0	1150	0.40	0.45
SS0704221KL□-□□□	220.0 $\pm$ 10%	45	100K	796K	5.0	1250	0.36	0.40
SS0704271KL□-□□□	270.0 $\pm$ 10%	40	100K	796K	4.5	1400	0.32	0.35

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

2). "- □□□ ":Reference code

3). Irms Base on temp. rise 30°C max.

4). Isat Base on temp rise Δ L/L0A=10% typ.



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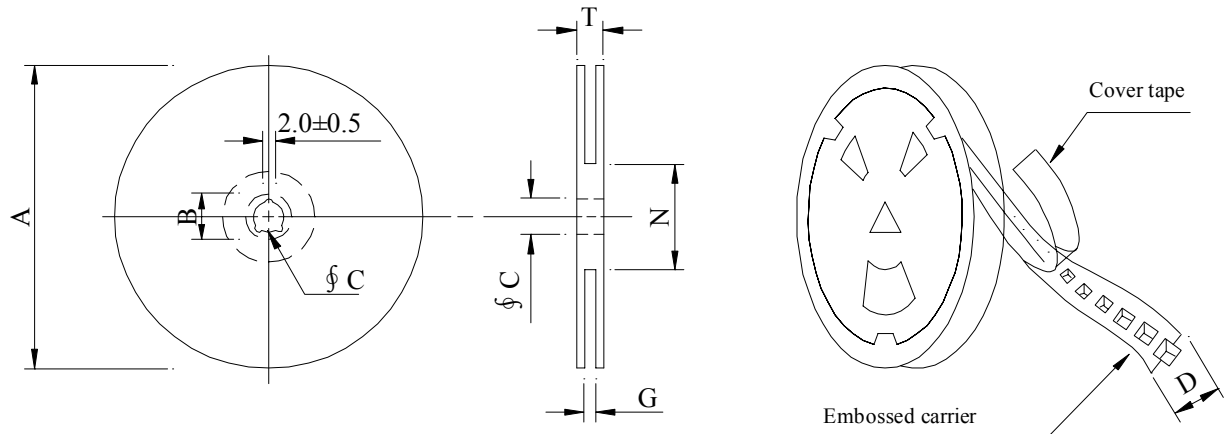
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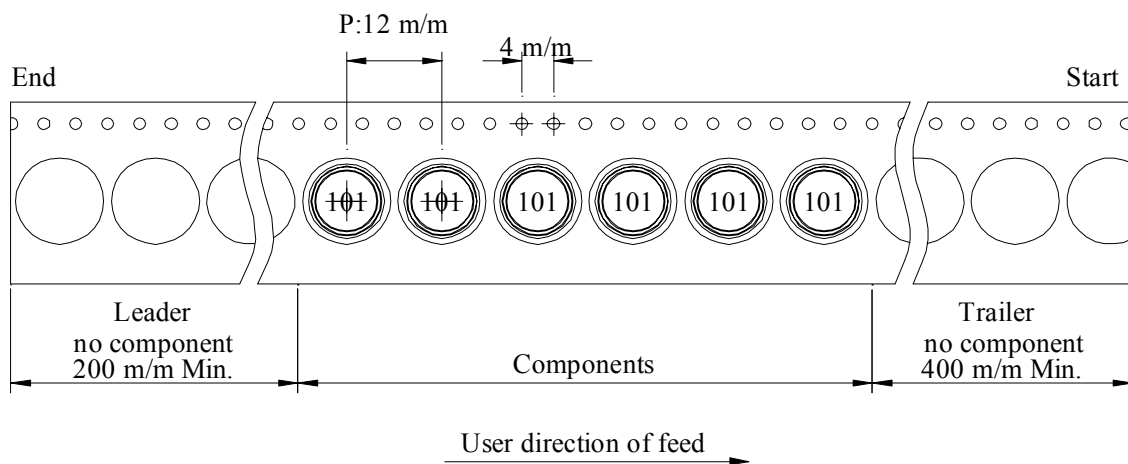
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VI . PACKAGING INFORMATION :

(1) Configuration



※ Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(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)
SS0704	1,000	640	13 - 16	6,000	6.20	40 x 40 x 24

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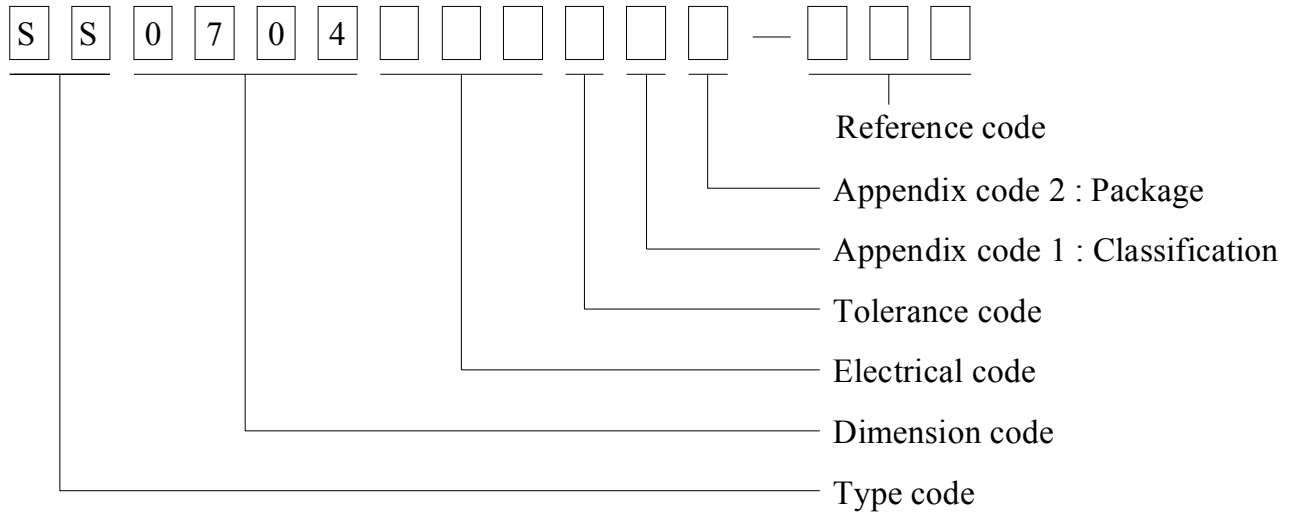
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VII . DWGING NUMBER EXPRESSION :



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)	1000 pcs	

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VIII . 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. → -25±2 °C 15 minutes 30 minutes Room temp. → 85±2 °C 15 minutes 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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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

IX . 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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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 LZL.

LZ - Signifies magened 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

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