

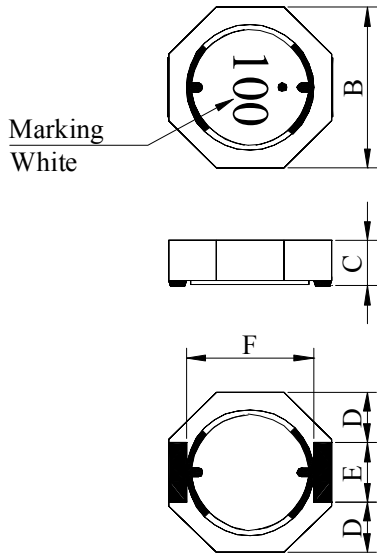
SPECIFICATION FOR APPROVAL

REF : 20070515-A

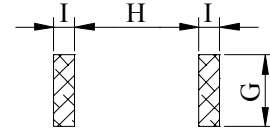
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU1048□□□□F□-□□□
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. CONFIGURATION & DIMENSIONS :

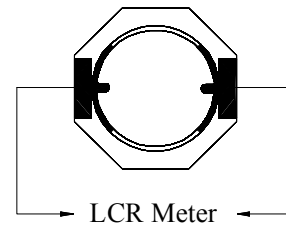


- A : 10.0 ±0.3 m/m
- B : 10.0 ±0.3 m/m
- C : 4.8 ±0.3 m/m
- D : 3.4 typ. m/m
- E : 3.2 typ. m/m
- F : 7.4 typ. m/m
- G : 4.0 ref. m/m
- H : 7.2 ref. m/m
- I : 1.8 ref. m/m



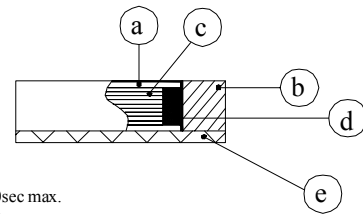
(PCB Pattern suggestion)

. SCHEMATIC DIAGRAM :

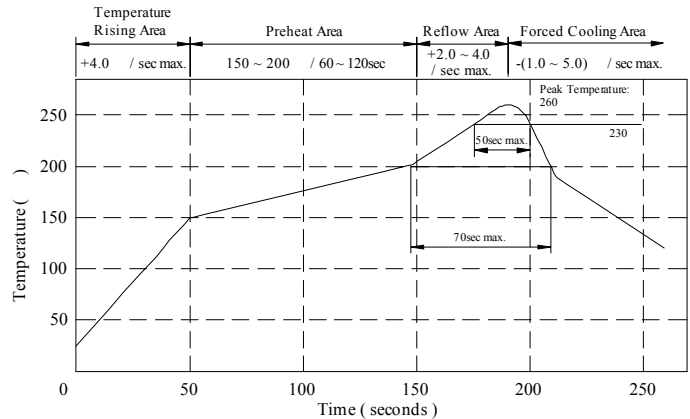


. MATERIALS :

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



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



. GENERAL SPECIFICATION :

- a . Temp. rise : 30 max.
- b . Storage temp. : -40 ----+125
- c . Operating temp. : -40 ----+105
- d . Resistance to solder heat : 260 .10 secs.

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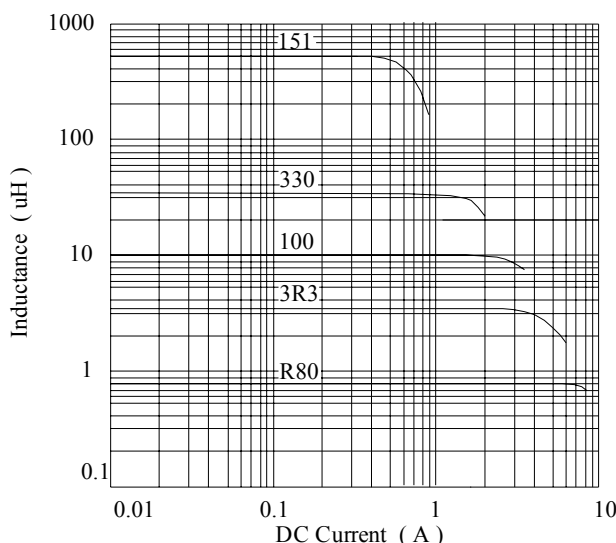
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		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC (m Ω)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
SU1048R80YF□-□□□	0.8 \pm 30%	8	100	3.6	4.8	7.80	8.50
SU10481R5YF□-□□□	1.5 \pm 30%	14	70	4.3	5.8	7.00	7.20
SU10482R2YF□-□□□	2.2 \pm 30%	14	55	5.3	7.2	6.50	6.30
SU10483R0YF□-□□□	3.0 \pm 30%	14	40	7.2	10.0	6.20	6.00
SU10484R7YF□-□□□	4.7 \pm 30%	12	30	9.5	12.5	5.50	4.75
SU10486R8YF□-□□□	6.8 \pm 30%	10	20	13.6	18.0	4.80	4.10
SU10488R2YF□-□□□	8.2 \pm 30%	8	18	15.0	20.0	4.60	3.80
SU1048100YF□-□□□	10.0 \pm 30%	26	16	18.5	25.0	4.50	3.70
SU1048150YF□-□□□	15.0 \pm 30%	30	14	29.0	40.0	3.20	2.70
SU1048220YF□-□□□	22.0 \pm 30%	22	12	42.0	55.0	2.60	2.00
SU1048330YF□-□□□	33.0 \pm 30%	24	10	63.0	84.0	2.10	1.70
SU1048470YF□-□□□	47.0 \pm 30%	26	8	94.0	120.0	1.70	1.50
SU1048560YF□-□□□	56.0 \pm 30%	26	7	110.0	145.0	1.60	1.40
SU1048680YF□-□□□	68.0 \pm 30%	24	6	127.0	170.0	1.40	1.25
SU1048820YF□-□□□	82.0 \pm 30%	24	5.5	149.0	200.0	1.30	1.10
SU1048101YF□-□□□	100.0 \pm 30%	26	5	160.0	220.0	1.20	1.00
SU1048151YF□-□□□	150.0 \pm 30%	24	4.5	235.0	305.0	1.00	0.80
SU1048221YF□-□□□	220.0 \pm 30%	20	4	350.0	455.0	0.80	0.70
SU1048331YF□-□□□	330.0 \pm 30%	18	3	490.0	640.0	0.65	0.52

- 1) . □ : Packaging Information.. [A] : Bulk [B] : Taping Reel
- 2) ."- □□□ " : Reference code
- 3) . Inductance Test Freq. : 100KHz / 1V
- 4) . Q Test Freq. : R80--25.2MHz , 1R5~8R2--7.96MHz , 100~820--2.52MHz , 101~331--0.796MHz
- 5) . Isat base on L / LOA=35% typ.
- 6) . Irms base on Temp. rise 30 max.

@ Inductance VS. DC Superposition Characteristics



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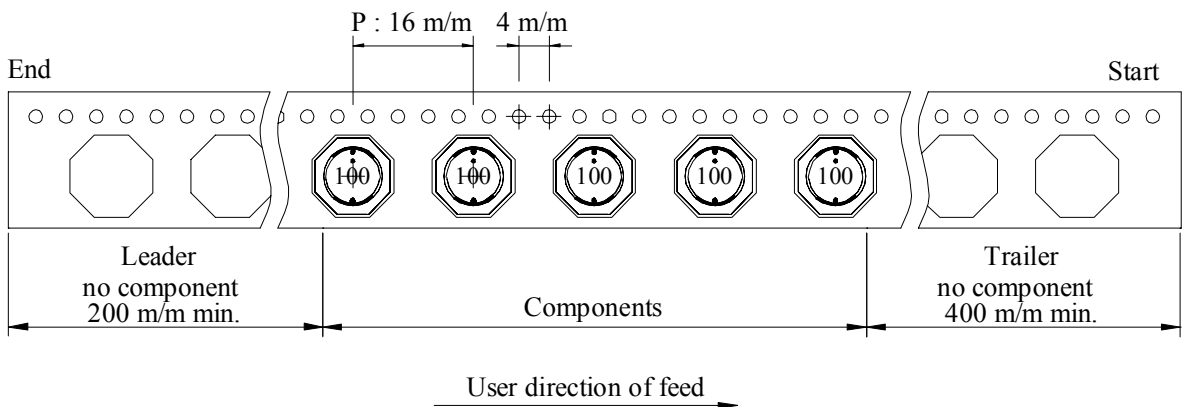
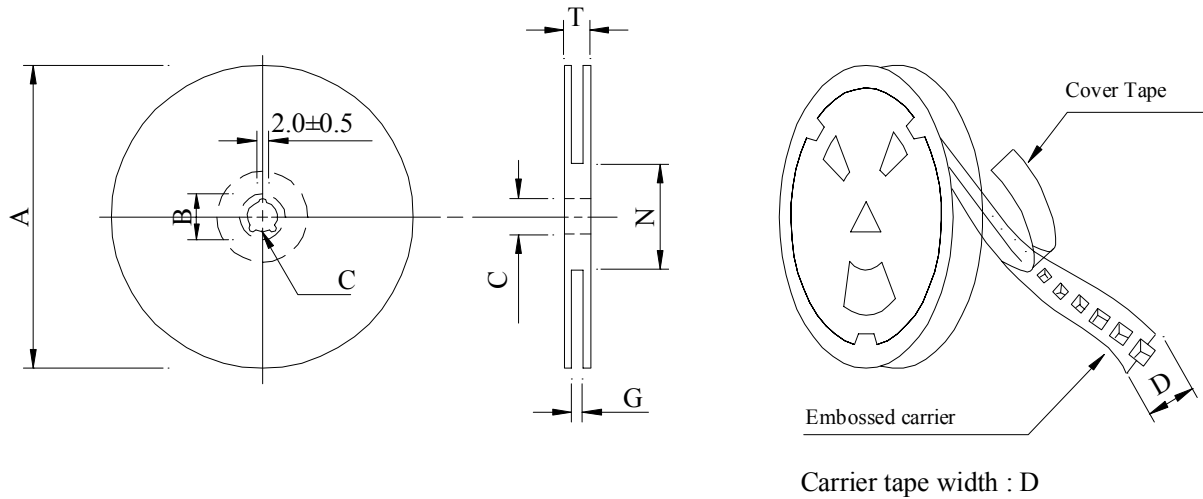
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		ABC'S ITEM NO.	

. 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) 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)
SU1048	600	1800	13 - 24	2400	9.5	40 x 40 x 24

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. 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%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-40 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">+105 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-40 30 minutes	Room temp. 15 minutes	→	+105 30 minutes
Room temp. 15 minutes		→	-40 30 minutes					
Room temp. 15 minutes		→	+105 30 minutes					
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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PROD.	SHIELDED SMD	ABC'S DWG NO.	SU1048□□□□F□-□□□
NAME	POWER INDUCTOR	ABC'S ITEM NO.	

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	ANSI Type	Temp Class
AIW	—	Polyamideimide	OC	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	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 magnet 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