

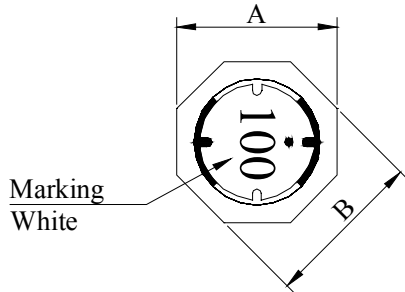
# SPECIFICATION FOR APPROVAL

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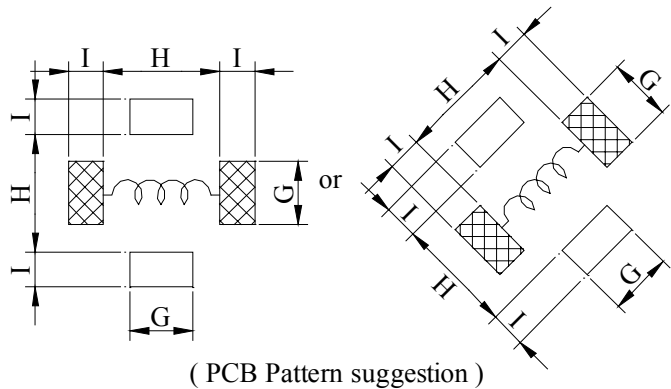
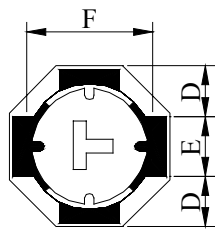
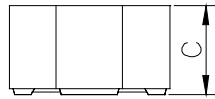
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8040□□□□F□
		ABC'S ITEM NO.	

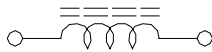
## I . CONFIGURATION & DIMENSIONS :



- A : 8.00 ±0.3 m/m
- B : 8.00 ±0.3 m/m
- C : 3.80 ±0.3 m/m
- D : 2.40 typ. m/m
- E : 3.20 typ. m/m
- F : 6.40 typ. m/m
- G : 3.40 ref. m/m
- H : 6.20 ref. m/m
- I : 1.40 ref. m/m

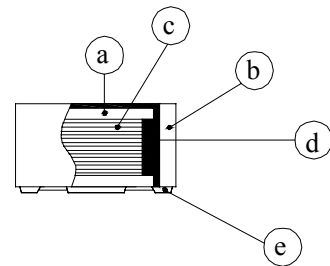


## II . SCHEMATIC DIAGRAM :



## III . MATERIALS :

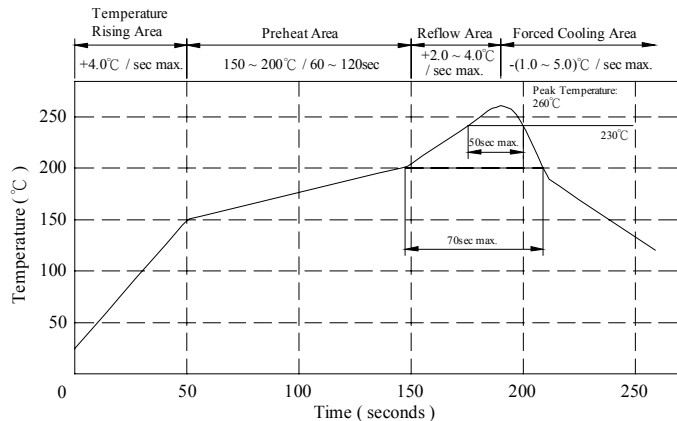
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire ( Class F )
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Lead content 200ppm max. include ferrite



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 : 40°C typ.
- b . Rated current :  
 Base on temp. rise &  $\Delta L / L0A=35\%$  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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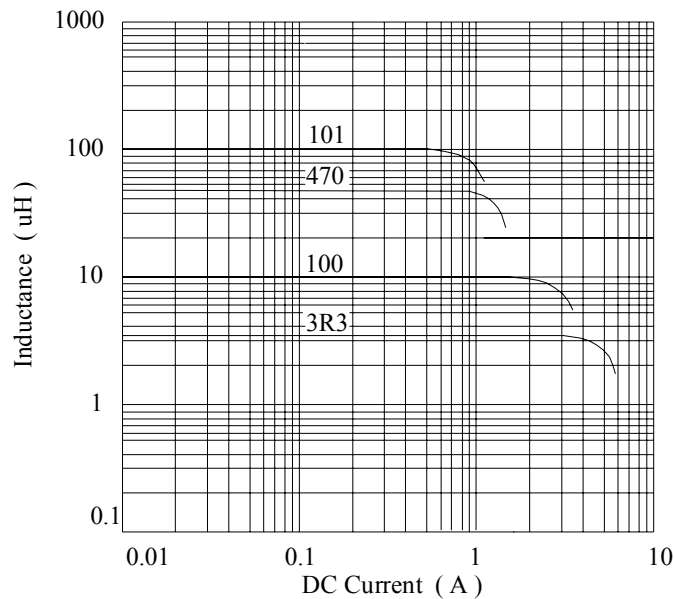
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		ABC'S ITEM NO.	

## V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (m $\Omega$ )		Irms (A) typ	Isat (A) typ
			L(KHz)	Q(MHz)		typ.	max.		
SU80403R3YF□	3.3±30%	12	100	7.96	40.0	13.8	18.0	6.00	5.00
SU80404R2YF□	4.2±30%	12	100	7.96	32.0	16.5	22.0	5.30	4.60
SU80406R2YF□	6.2±30%	10	100	7.96	28.0	25.0	32.0	4.20	4.00
SU8040100YF□	10.0±30%	22	100	2.52	20.0	33.0	42.0	3.70	2.90
SU8040150YF□	15.0±30%	20	100	2.52	18.0	55.0	70.0	2.80	2.50
SU8040220YF□	22.0±30%	22	100	2.52	15.0	88.0	110.0	2.20	2.05
SU8040330YF□	33.0±30%	22	100	2.52	12.0	115.0	150.0	1.90	1.75
SU8040470YF□	47.0±30%	20	100	2.52	10.0	150.0	190.0	1.55	1.45
SU8040680YF□	68.0±30%	18	100	2.52	8.0	205.0	260.0	1.35	1.10
SU8040101YF□	100.0±30%	25	100	0.796	6.0	325.0	410.0	1.05	0.92
SU8040151YF□	150.0±30%	18	100	0.796	5.0	445.0	560.0	0.90	0.77

- 1) . □ : Packaging Information... **A** : Bulk **B** : Taping Reel
- 2) . Inductance Test Freq. : 100KHz / 0.1V
- 3) . Isat base on  $\Delta L / L0A=35\%$  typ.
- 4) . Irms base on Temp. rise 40°C typ.

@ Inductance VS. DC Superposition Characteristics



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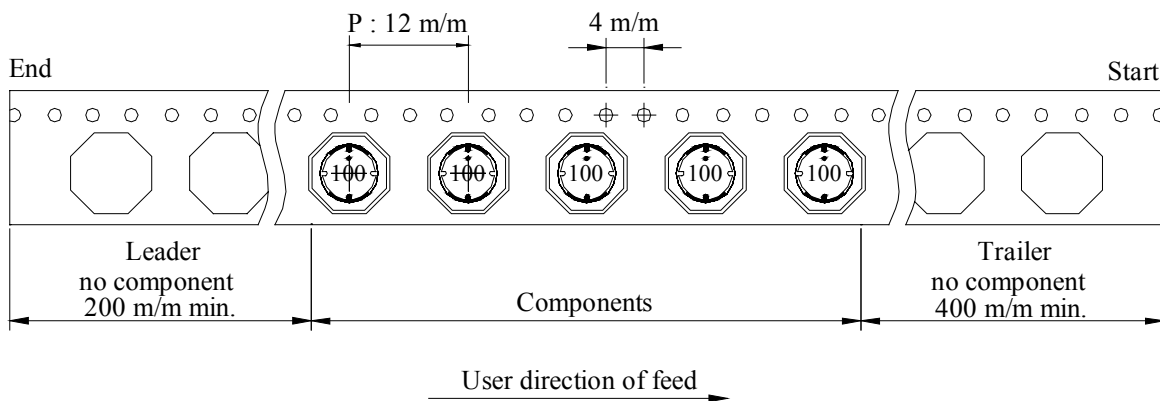
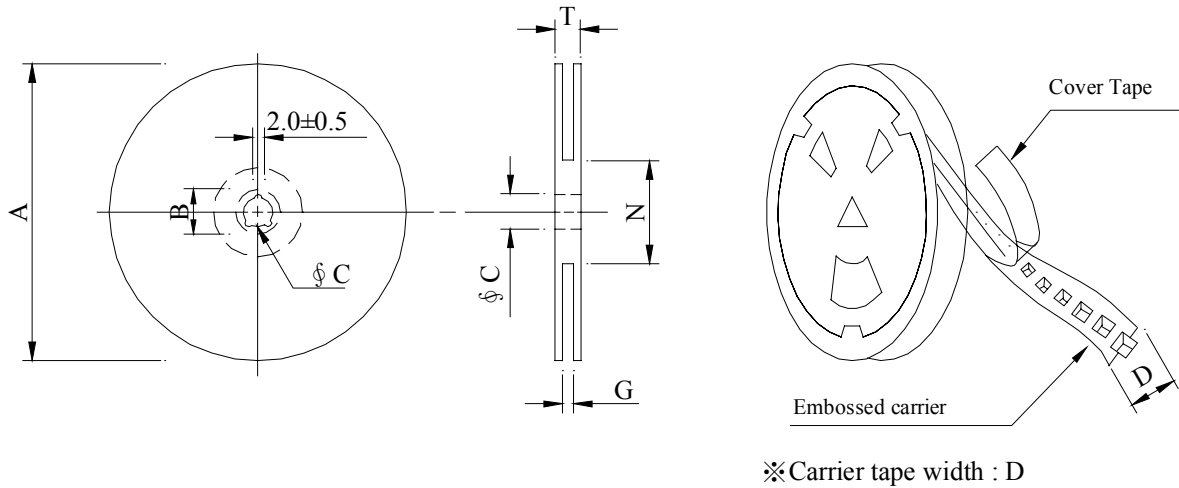
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## VI . PACKAGING INFORMATION :

### ( 1 ) Configuration



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 <sup>+0</sup>	50 <sup>-0</sup>	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)
SU8040	1,200	1,600	13 - 16	7,200	12.1	40 x 40 x 24

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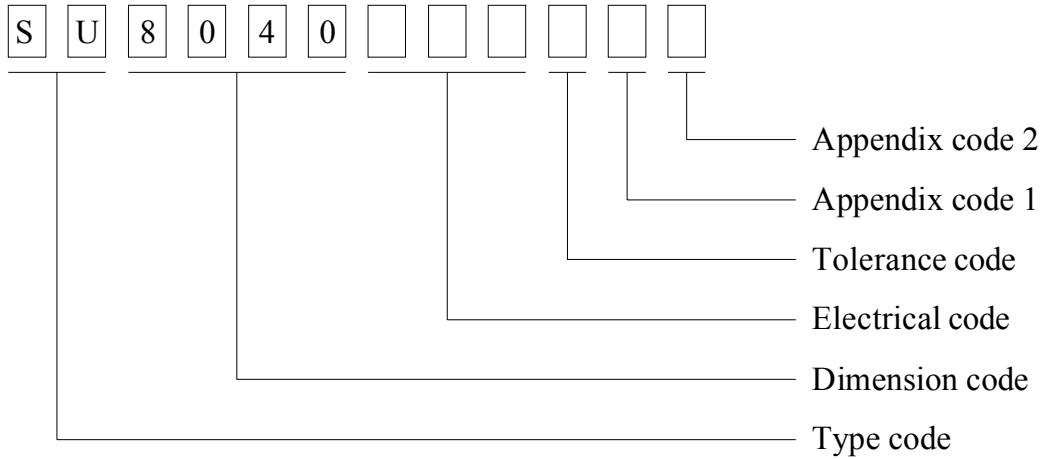
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**VII . DWG EXPRESSION :**



- Appendix code 1 : S : Standard products  
 A ~ E , G ~ K , M ~ R , T ~ Z : Special products  
 L , F : 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 )	1,200 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 ±30%	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: right;">-25±2 °C 30 minutes</td> </tr> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: right;">85±2 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 °C 30 minutes	Room temp. 15 minutes	→	85±2 °C 30 minutes
Room temp. 15 minutes	→	-25±2 °C 30 minutes						
Room temp. 15 minutes	→	85±2 °C 30 minutes						
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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**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
L.SFFW	---	Polyurethane		---	MW79-C	155
L.SUEW	---	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	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 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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OBMW2E174837  
September 8, 2000

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