

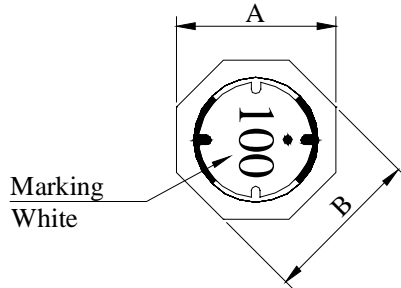
# SPECIFICATION FOR APPROVAL

REF :

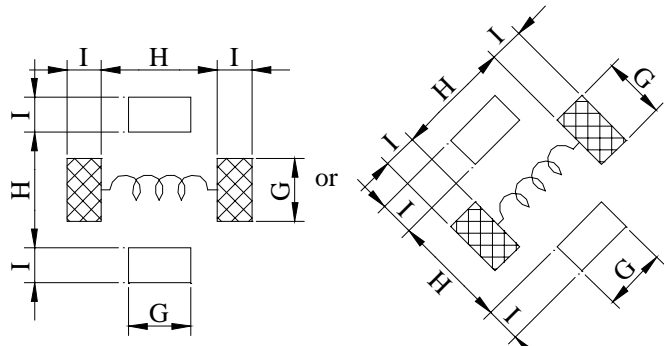
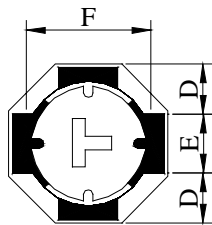
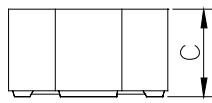
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8058□□□□F□
		ABC'S ITEM NO.	

## I . CONFIGURATION & DIMENSIONS :

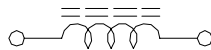


A	: 8.00 ±0.3	m/m
B	: 8.00 ±0.3	m/m
C	: 5.80 ±0.3	m/m
D	: 2.40 typ.	m/m
E	: 3.20 typ.	m/m
F	: 6.40 typ.	m/m
G	: 3.40 ref.	m/m
H	: 6.20 ref.	m/m
I	: 1.40 ref.	m/m



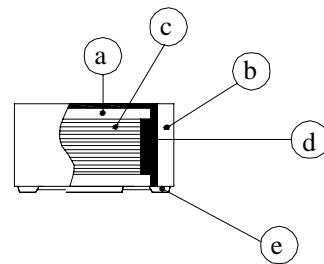
( PCB Pattern suggestion )

## II . SCHEMATIC DIAGRAM :



## III . MATERIALS :

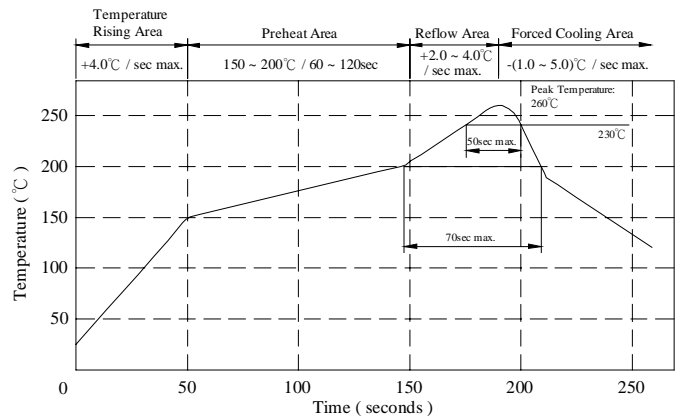
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire ( Class F )
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Lead content 200ppm max.  
include ferrite



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 & ΔL / LOA=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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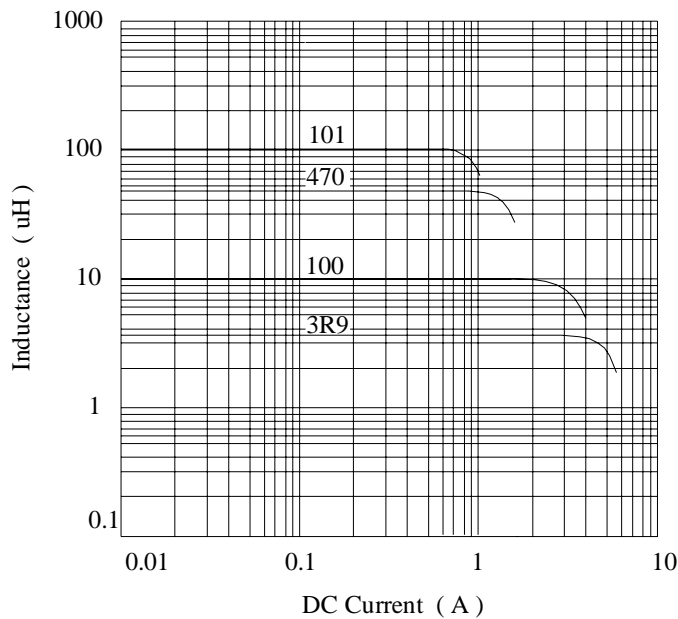
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		ABC'S ITEM NO.	

**V . ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( μH )	Q ref.	Test Freq.		SRF ( MHz ) typ.	RDC ( mΩ )		Irms ( A )	Isat ( A )
			L(KHz)	Q(MHz)		typ.	max.		
SU80583R9YF□	3.9±30%	8	100	7.96	45.0	12.0	16.0	6.50	4.50
SU80585R2YF□	5.2±30%	8	100	7.96	35.0	14.0	17.5	5.80	3.90
SU80586R8YF□	6.8±30%	8	100	7.96	30.0	16.0	20.0	5.50	4.00
SU8058100YF□	10.0±30%	20	100	2.52	18.0	18.6	25.0	4.60	3.00
SU8058220YF□	22.0±30%	20	100	2.52	14.0	42.0	52.0	3.40	1.80
SU8058330YF□	33.0±30%	16	100	2.52	10.0	58.0	72.0	2.70	1.60
SU8058470YF□	47.0±30%	12	100	2.52	7.0	80.0	100.0	2.30	1.50
SU8058680YF□	68.0±30%	16	100	2.52	6.0	100.0	130.0	2.00	1.20
SU8058101YF□	100.0±30%	22	100	0.796	5.0	124.0	160.0	1.70	0.90

- 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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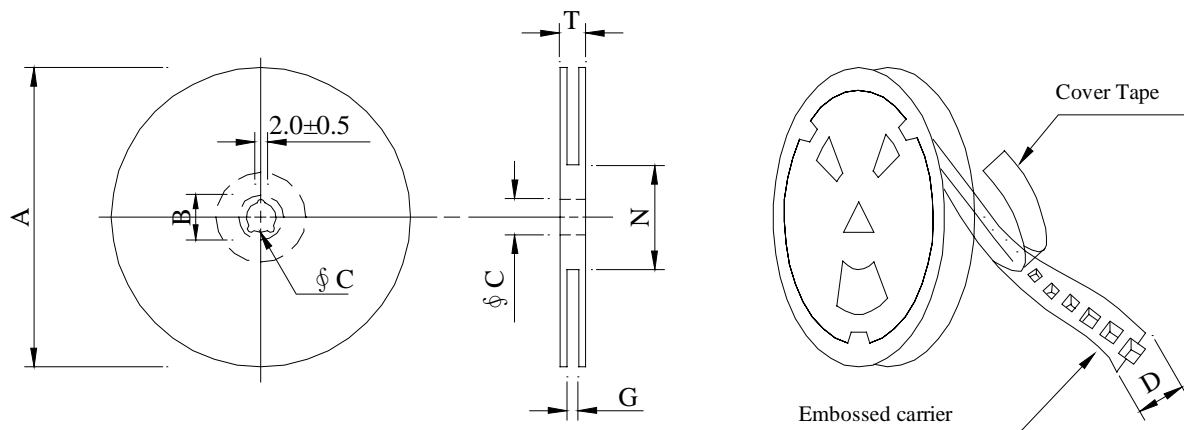
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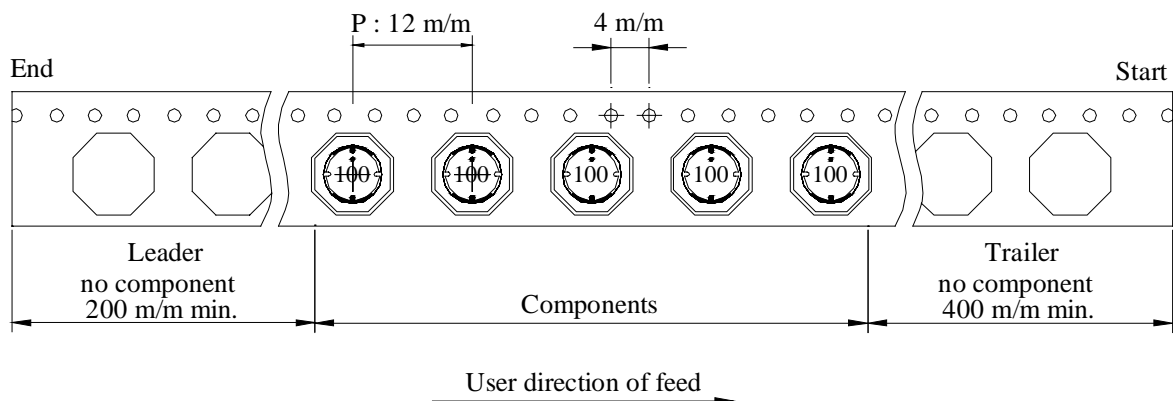
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		ABC'S ITEM NO.	

## 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 <sup>+0</sup>	50 <sup>-0</sup>	22.4

### ( 3 ) QTY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SU8058	800	1,350	13 - 16	4,800	10.5	40 x 40 x 24

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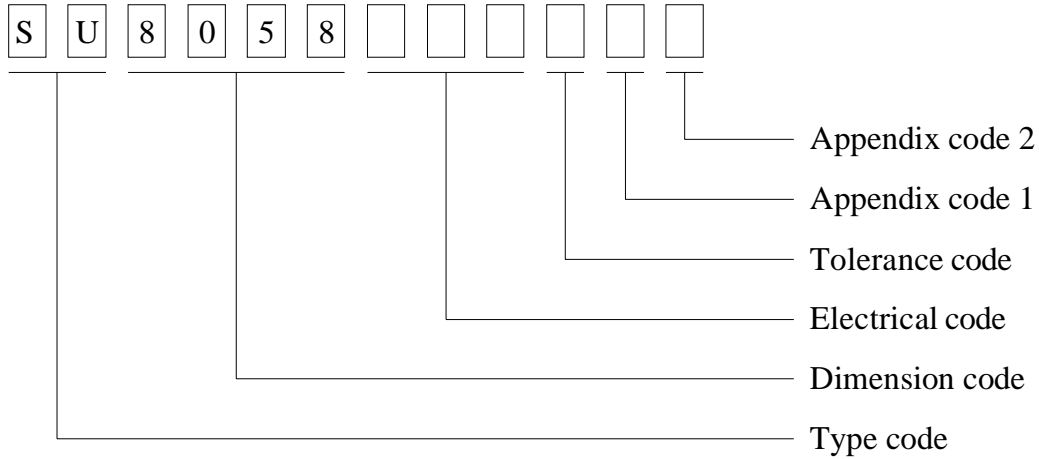
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**VII . DWG EXPRESSION :**



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 )	800 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°C for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C 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: center;"> <table style="border: none;"> <tr> <td style="border: none;">-25±2 °C</td> <td style="border: none;">30 minutes</td> </tr> </table> </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: center;"> <table style="border: none;"> <tr> <td style="border: none;">85±2 °C</td> <td style="border: none;">30 minutes</td> </tr> </table> </td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	<table style="border: none;"> <tr> <td style="border: none;">-25±2 °C</td> <td style="border: none;">30 minutes</td> </tr> </table>	-25±2 °C	30 minutes	Room temp. 15 minutes	→	<table style="border: none;"> <tr> <td style="border: none;">85±2 °C</td> <td style="border: none;">30 minutes</td> </tr> </table>	85±2 °C	30 minutes
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85±2 °C	30 minutes											
Humidity Resistance test		Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours										
High temp. Resistance test		Temperature : 105±2°C Applied current : Per spec. Time : 500 hours										

# SPECIFICATION FOR APPROVAL

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU8058□□□□F□
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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
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	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 - signi-  
fies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks 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