

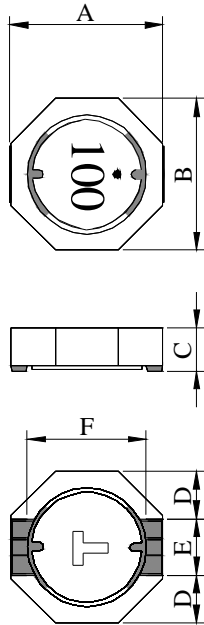
# SPECIFICATION FOR APPROVAL

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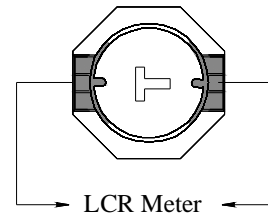
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8043□□□□F□-□□□
		ABC'S ITEM NO.	

## I . CONFIGURATION & DIMENSIONS :



- A : 8.00 ±0.3 m/m
- B : 8.00 ±0.3 m/m
- C : 4.30 ±0.3 m/m
- D : 2.50 typ. m/m
- E : 3.00 ±0.5 m/m
- F : 6.00 typ. m/m
- G : 3.20 ref. m/m
- H : 5.80 ref. m/m
- I : 1.40 ref. m/m

( PCB Pattern Suggestion )

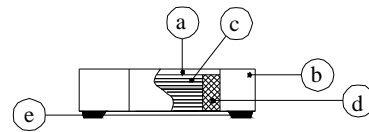


## II . SCHEMATIC DIAGRAM :

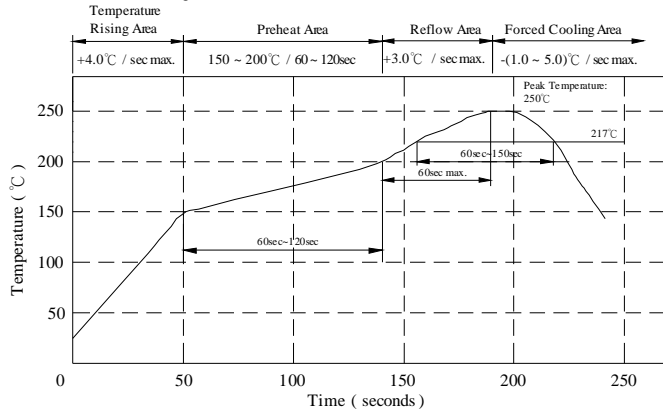


## III . MATERIALS :

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



Peak Temp : 250°C max.  
 Max. Peak Temp - 5°C : 30sec max.  
 Max time above 217°C : 60sec~150sec max.



## IV . GENERAL SPECIFICATION :

- a . Temp. rise : 40°C typ.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -40°C ----+125°C
- d . Resistance to solder heat : 250°C.10 secs.

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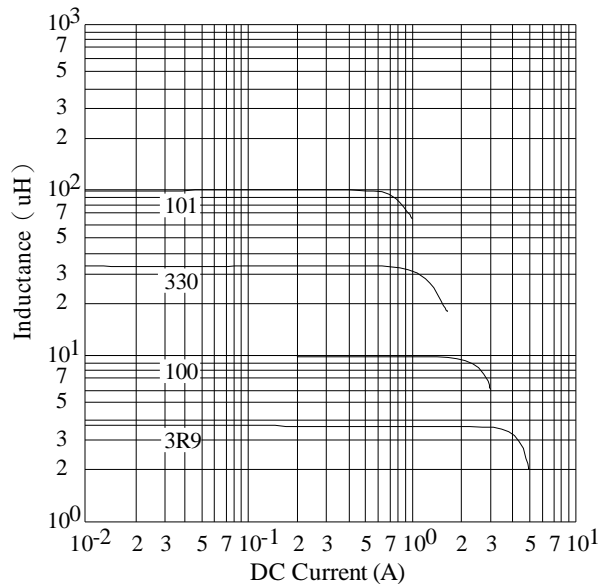
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### V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( μH )	Q ref.	Test Freq.		SRF ( MHz ) typ.	RDC ( mΩ )		Irms ( A )	Isat ( A )
			L(KHz)	Q(MHz)		typ.	max.		
SU80431R0YF□-□□□	1.0±30%	15	100	7.960	70.0	8.1	10.0	6.60	7.50
SU80432R2YF□-□□□	2.2±30%	15	100	7.960	65.0	11.2	15.0	5.40	5.20
SU80433R3YF□-□□□	3.3±30%	12	100	7.960	54.0	12.5	17.0	5.10	4.50
SU80433R9YF□-□□□	3.9±30%	15	100	7.960	42.0	14.6	19.0	4.80	4.00
SU80434R7YF□-□□□	4.7±30%	13	100	7.960	36.0	17.0	22.0	4.60	3.60
SU80436R8YF□-□□□	6.8±30%	12	100	7.960	30.0	22.4	30.0	3.80	3.10
SU8043100YF□-□□□	10.0±30%	27	100	2.520	20.0	30.0	40.0	3.50	2.70
SU8043150YF□-□□□	15.0±30%	26	100	2.520	15.0	46.0	60.0	2.70	2.00
SU8043220YF□-□□□	22.0±30%	24	100	2.520	12.0	72.5	95.0	2.20	1.70
SU8043330YF□-□□□	33.0±30%	21	100	2.520	11.0	100.0	130.0	1.70	1.40
SU8043470YF□-□□□	47.0±30%	21	100	2.520	9.0	120.0	150.0	1.50	1.20
SU8043680YF□-□□□	68.0±30%	20	100	2.520	7.0	192.0	250.0	1.20	1.00
SU8043101YF□-□□□	100.0±30%	50	100	0.796	6.0	287.0	370.0	1.00	0.80

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

@ Inductance VS. DC Current Curve



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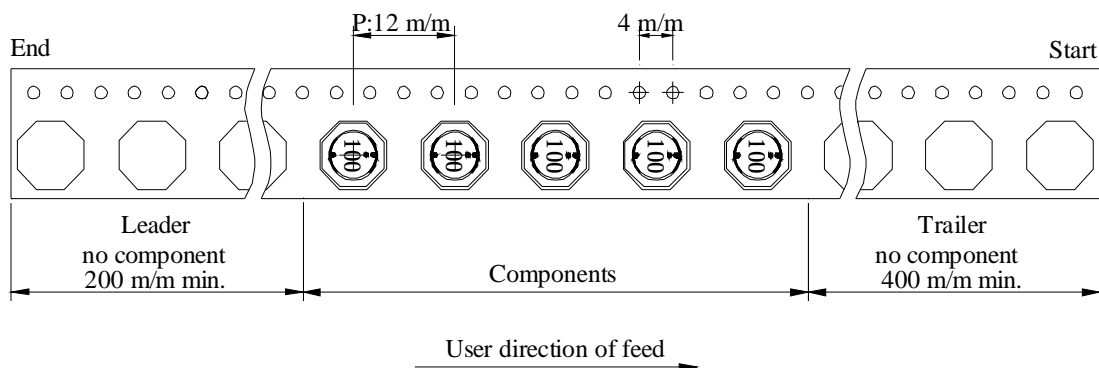
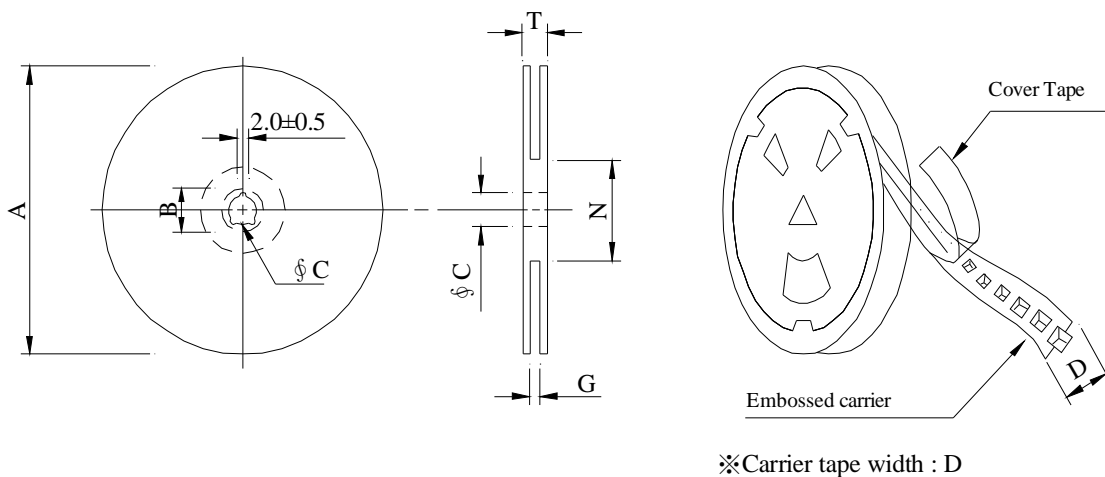
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## VI . PACKAGING INFORMATION :

### ( 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 ) 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)
SU8043	1000	2,100	13 - 16	6,000	15.5	38 x 37 x 22

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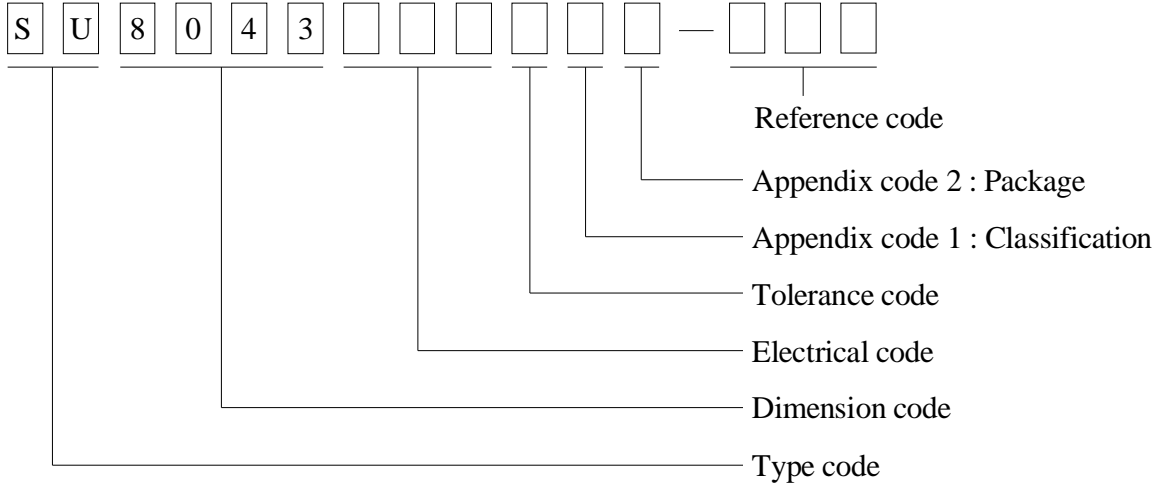
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**VII . DWGING NUMBER EXPRESSION :**



**Appendix code 1 : Product Classification**

F : 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 )	1,000 pcs	

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**VIII . RELIABILITY TEST :**

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds						
Thermal shock test ( Temp. cycle )	Electrical oharakteristics 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 °C 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;">+125 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-40 °C 30 minutes	Room temp. 15 minutes	→	+125 °C 30 minutes
Room temp. 15 minutes	→	-40 °C 30 minutes						
Room temp. 15 minutes	→	+125 °C 30 minutes						
Humidity test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test		Temperature : 125±5°C Applied current : Per spec. Time : 96 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
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	---	<b>Polyesterimide</b>	---	---	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

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OBMW2E174837  
September 8, 2000

@ -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 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 August 27, 1999  
 Magnet Wire-Component

ELEKTRISOLA (MALAYSIA) SDN BHD E143312  
 IALAN DAMN SATU IANDA BAIK 28750 BENTONG, PAHANG  
 DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 160	E180	Polyesterimide (solderable)	---	MW-77	180
Amldester 200	A200	Polyesterimide	---	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80,	155,
				MW-28	100
Polysol 155	P155	Polyurethane	---	MW-79,	155,
				MW-79	130
Polysol 155g	Pg155	Polyurethane	---	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurethane	---	MW-79	155
Polysol 160	P160	Polyurethane	---	MW-79	155
Polysol 180	P180	Polyurethane	---	MW-79	155
Polysol 170	P170 or G170	Polyurethane	---	MW-79	156
Polysol-N 180	PN180	Polyurethane	Nylon	---	180

Marking : Company name/material designation or marked designation and factory identification on package ok reel

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