

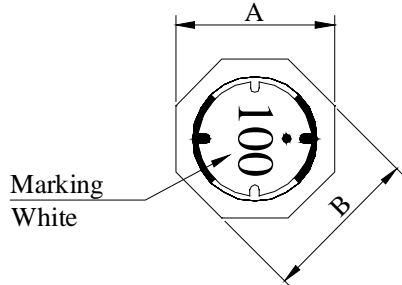
SPECIFICATION FOR APPROVAL

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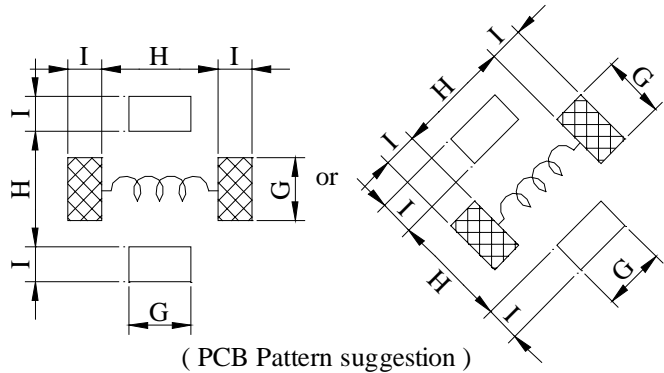
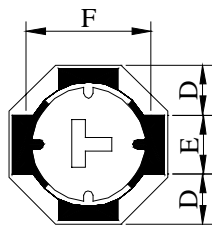
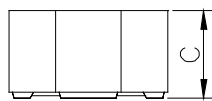
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU8030□□□□F□
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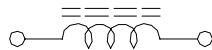
I . CONFIGURATION & DIMENSIONS :



A	: 8.00 ±0.3	m/m
B	: 8.00 ±0.3	m/m
C	: 2.80 ±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

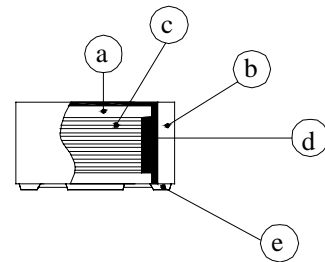


II . SCHEMATIC DIAGRAM :



III . MATERIALS :

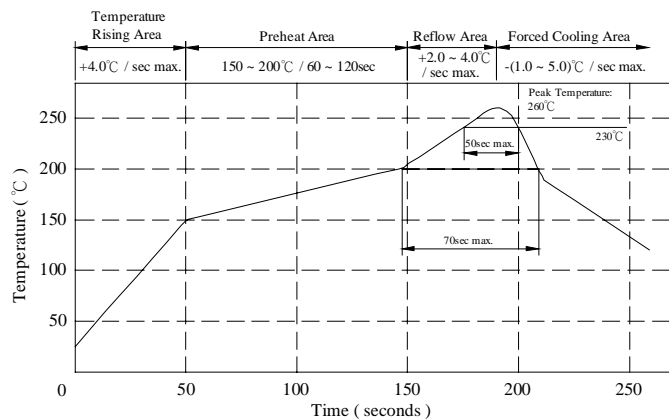
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class F)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Lead content 200ppm max.
include ferrite



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 & 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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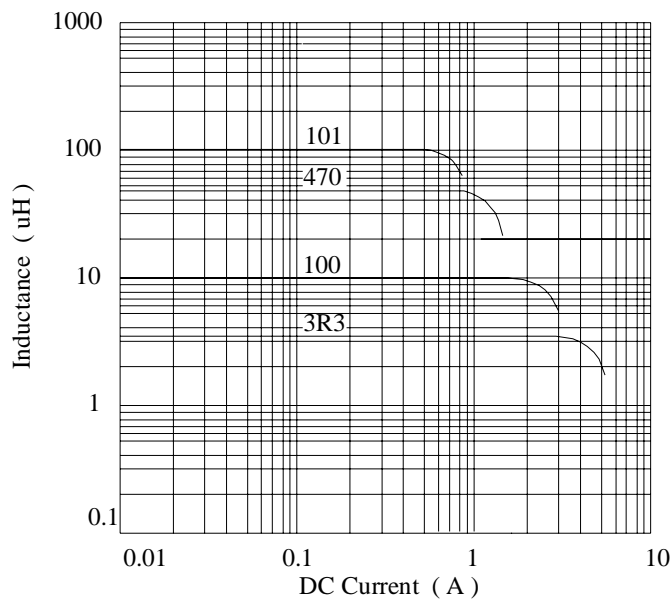
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8030□□□□F□
		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A)	Isat (A)
			L(KHz)	Q(MHz)		typ.	max.		
SU80303R3YF□	3.3±30%	12	100	7.96	55.0	15.6	22.0	5.00	4.60
SU80304R7YF□	4.7±30%	10	100	7.96	42.0	22.0	30.0	4.60	3.80
SU80306R8YF□	6.8±30%	10	100	7.96	30.0	34.5	46.0	3.60	3.20
SU8030100YF□	10.0±30%	18	100	2.52	25.0	47.3	60.0	3.00	2.60
SU8030150YF□	15.0±30%	18	100	2.52	20.0	75.0	100.0	2.20	2.00
SU8030220YF□	22.0±30%	18	100	2.52	16.0	105.0	130.0	2.00	1.75
SU8030330YF□	33.0±30%	16	100	2.52	14.0	144.0	180.0	1.60	1.45
SU8030470YF□	47.0±30%	16	100	2.52	12.0	205.0	260.0	1.45	1.25
SU8030680YF□	68.0±30%	16	100	2.52	9.0	250.0	315.0	1.25	0.96
SU8030101YF□	100.0±30%	24	100	0.796	7.0	415.0	520.0	0.85	0.75

- 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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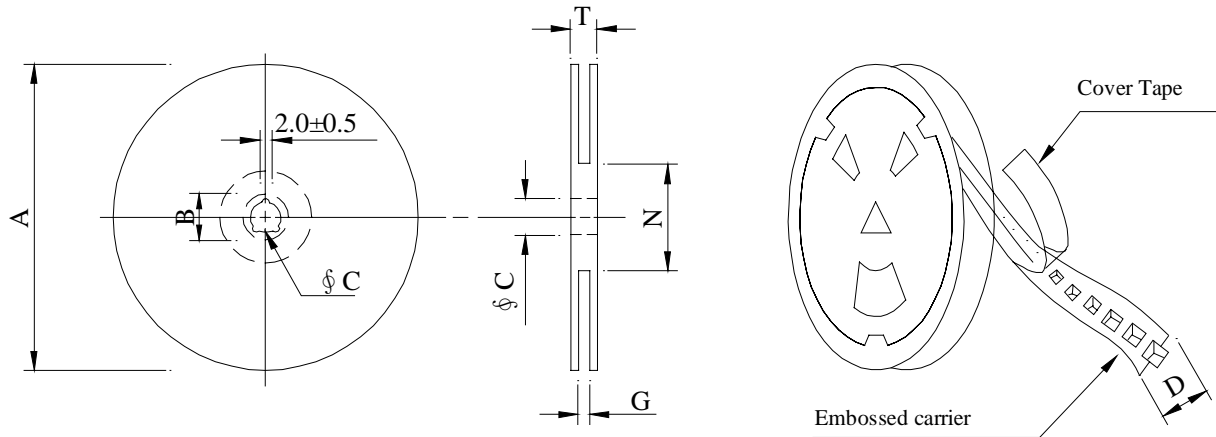
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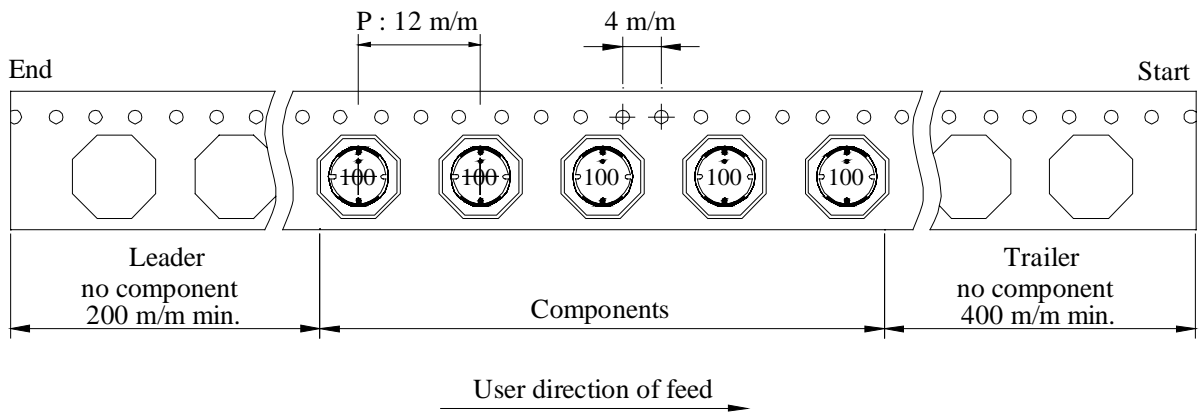
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	20.5
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)
SU8030	400	500	07 - 16	12,000	17.5	42 x 41 x 24
SU8030	1,500	1,880	13 - 16	9,000	13.5	40 x 40 x 24

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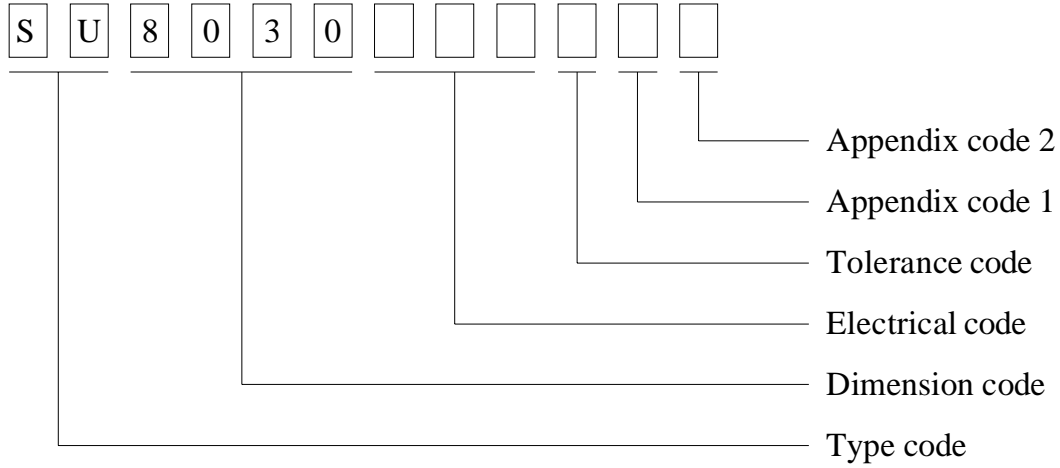
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		ABC'S ITEM NO.	

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)	1,600 pcs	

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8030□□□□F□
		ABC'S ITEM NO.	

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="text-align: center; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;"><u>-25±2 °C</u> 30 minutes</td> </tr> <tr> <td style="text-align: center; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;"><u>85±2 °C</u> 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	<u>-25±2 °C</u> 30 minutes	Room temp. 15 minutes	→	<u>85±2 °C</u> 30 minutes
Room temp. 15 minutes	→	<u>-25±2 °C</u> 30 minutes						
Room temp. 15 minutes	→	<u>85±2 °C</u> 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						

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU8030□□□□F□
		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

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September 8, 2000

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