

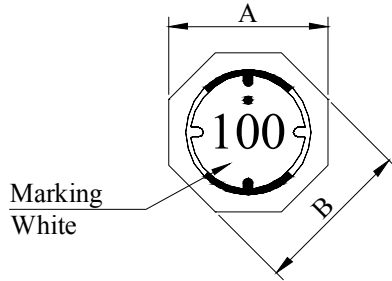
SPECIFICATION FOR APPROVAL

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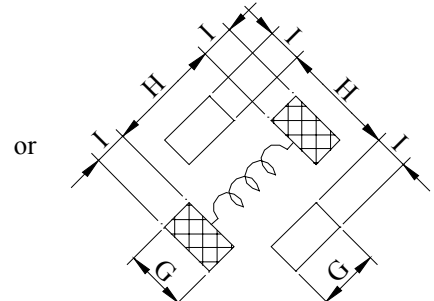
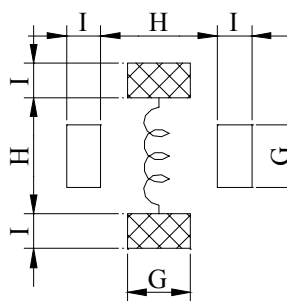
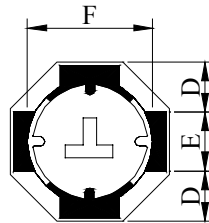
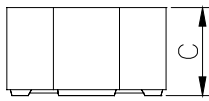
PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU1050□□□□F□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

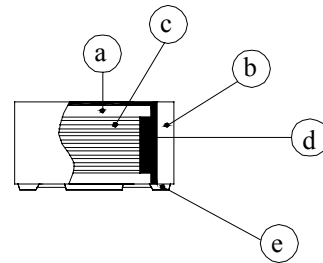
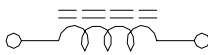


A : 10.00 ±0.30	m/m
B : 10.00 ±0.30	m/m
C : 4.80 ±0.30	m/m
D : 3.00 typ.	m/m
E : 4.00 typ.	m/m
F : 8.20 typ.	m/m
G : 4.20 ref.	m/m
H : 8.20 ref.	m/m
I : 1.40 ref.	m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



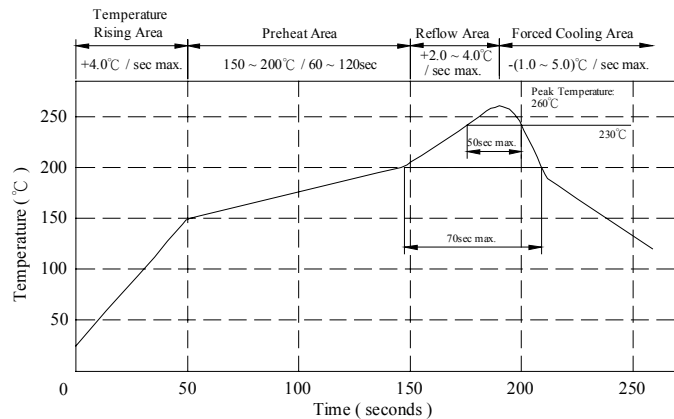
III . MATERIALS :

- 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.



AE-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

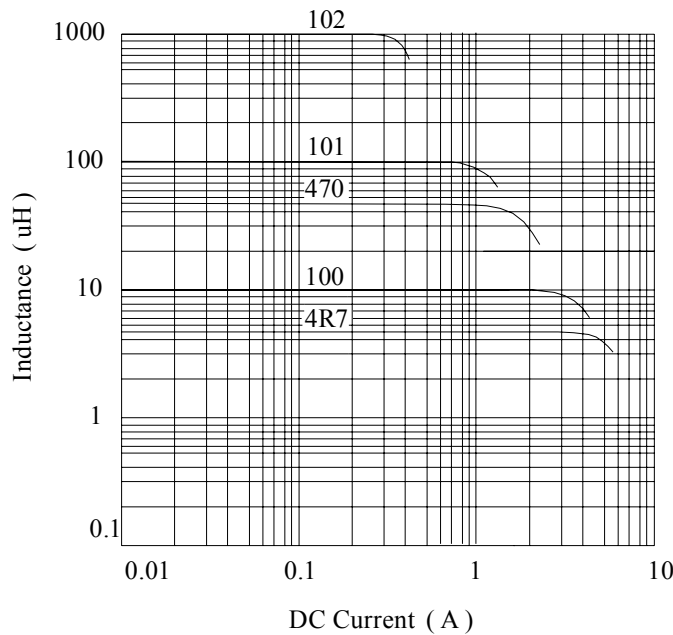
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		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

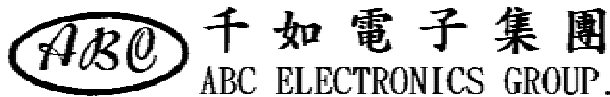
DWG No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC (m Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
				typ.	max.		
SU10504R7YF□	4.7 ±30%	13	34.0	14.5	19.0	5.20	5.10
SU1050100YF□	10.0 ±30%	16	20.0	26.0	34.0	4.40	3.80
SU1050220YF□	22.0 ±30%	16	10.0	58.0	76.0	2.90	2.70
SU1050330YF□	33.0 ±30%	14	8.5	70.0	90.0	2.70	2.10
SU1050470YF□	47.0 ±30%	14	7.0	100.0	130.0	2.10	1.80
SU1050680YF□	68.0 ±30%	14	6.5	144.0	186.0	1.75	1.45
SU1050101YF□	100.0 ±30%	16	5.0	198.0	260.0	1.50	1.25
SU1050151YF□	150.0 ±30%	16	4.0	330.0	430.0	1.15	1.05
SU1050221YF□	220.0 ±30%	14	3.5	470.0	610.0	0.95	0.88
SU1050331YF□	330.0 ±30%	11	2.5	690.0	900.0	0.84	0.70
SU1050471YF□	470.0 ±30%	11	1.9	1050.0	1350.0	0.65	0.55
SU1050681YF□	680.0 ±30%	11	1.6	1350.0	1760.0	0.56	0.48
SU1050102YF□	1000.0 ±30%	30	1.4	2120.0	2760.0	0.47	0.40

- 1) . □ : Packaging Information... [A] : Bulk [B] : Taping Reel
- 2) . Inductance Test Freq. : 100KHz / 0.1V
- 3) . Q Test Freq. : 4R7--7.96MHz , 100~680--2.52MHz , 101~681--0.796MHz , 102--0.252MHz
- 4) . I_{sat} base on $\Delta L / LOA=35\%$ typ.
- 5) . I_{rms} base on Temp. rise 40°C typ.

@ Inductance VS. DC Superposition Characteristics



AE-001A



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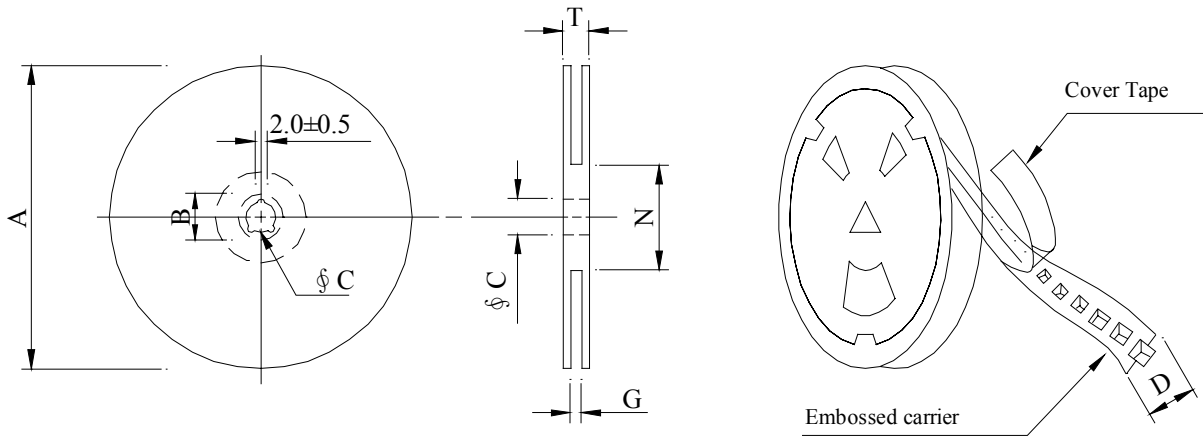
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PAGE: 3

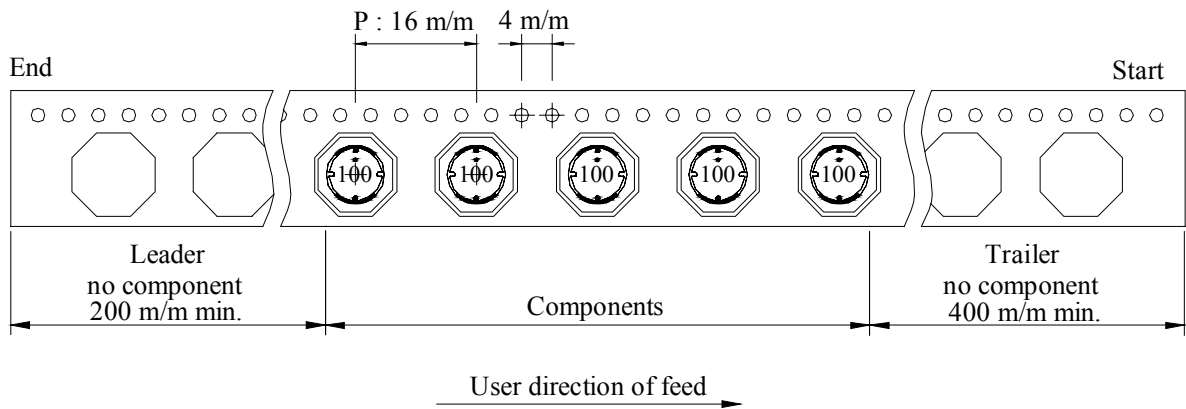
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 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)
SU1050	700	1,300	13 - 24	2,800	7.2	40 x 40 x 24

AE-001A

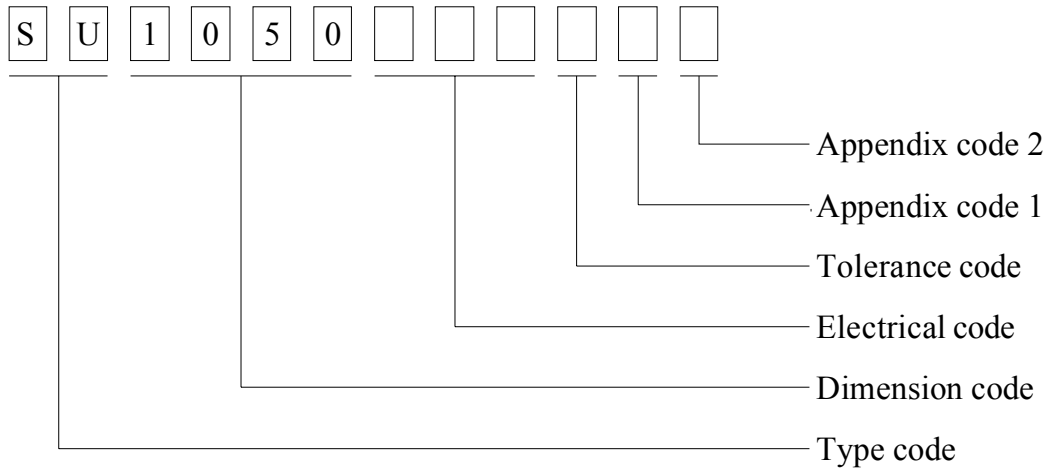
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PAGE: 4

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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)	700 pcs	

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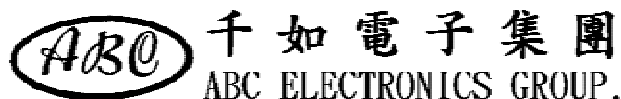
PAGE: 5

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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="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25±2 °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;">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°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							

AE-001A



SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

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		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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287806002 Page 1 of 2

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 LZL.
LZ - Signifies magnd 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 聚鼎電業, 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.

287806002 Page 2 of 2 OBMW2E174837
September 8, 2000