

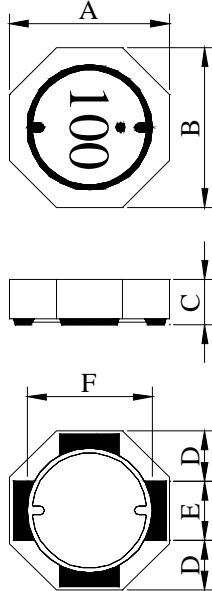
SPECIFICATION FOR APPROVAL

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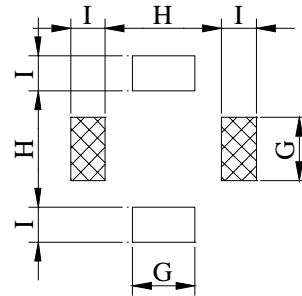
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU5011□□□□L□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

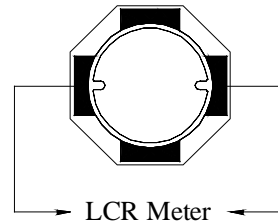
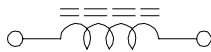


A :	5.20 ±0.20	m/m
B :	5.20 ±0.20	m/m
C :	1.10 ±0.10	m/m
D :	1.70 typ.	m/m
E :	1.80 typ.	m/m
F :	3.90 typ.	m/m
G :	2.00 ref.	m/m
H :	3.70 ref.	m/m
I :	1.10 ref.	m/m



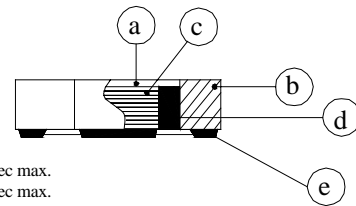
(PCB Pattern suggestion)

II . SCHEMATIC DIAGRAM :

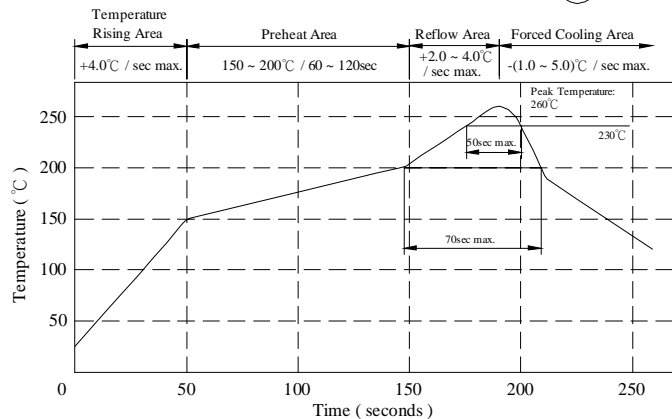


III . MATERIALS :

- 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 : 25°C max.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -40°C ----+105°C
- d . Resistance to solder heat : 260°C.10 secs.

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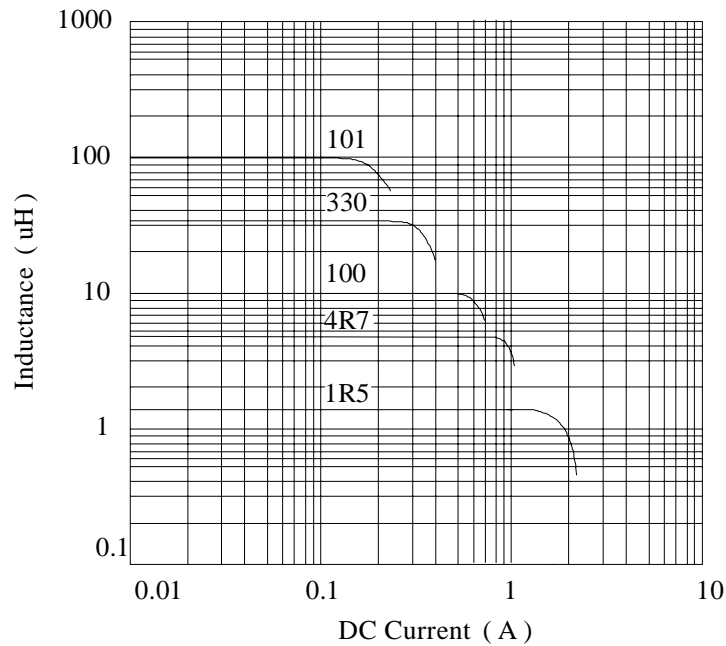
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU5011□□□□L□
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V . ELECTRICAL CHARACTERISTICS :

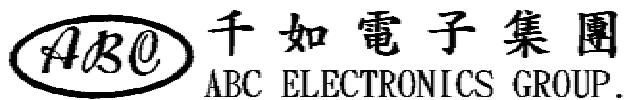
DWG No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC (m Ω)		Irms (mA) max.	Isat (mA) max.
				typ.	max.		
SU50111R5YL□	1.5 \pm 30 %	8	195	32	42	1800	1500
SU50112R5YL□	2.5 \pm 30 %	8	125	52	68	1300	1100
SU50113R3YL□	3.3 \pm 30 %	8	110	66	85	1150	940
SU50114R7YL□	4.7 \pm 30 %	8	85	95	120	1000	820
SU50116R8YL□	6.8 \pm 30 %	8	70	130	170	820	680
SU5011100YL□	10.0 \pm 30 %	12	50	170	220	700	580
SU5011150YL□	15.0 \pm 30 %	12	42	250	320	600	480
SU5011220YL□	22.0 \pm 30 %	14	38	380	500	500	400
SU5011330YL□	33.0 \pm 30 %	14	30	550	700	380	300
SU5011470YL□	47.0 \pm 30 %	16	25	800	1050	320	260
SU5011680YL□	68.0 \pm 30 %	14	20	1240	1600	260	220
SU5011101YL□	100.0 \pm 30 %	30	15	1600	2000	200	180

- 1) . □ : Packaging Information... [A] : Bulk [B] : Taping Reel
- 2) . Inductance Test Freq. : 100KHz / 0.1V
- 3) . Q Test Freq. : 1R5~100--7.96MHz , 150~680--2.52MHz , 101--0.796MHz
- 4) . Isat base on Δ L / LOA=35% max.
- 5) . Irms base on Temp. rise 25°C max.

@ Inductance VS. DC Superposition Characteristics



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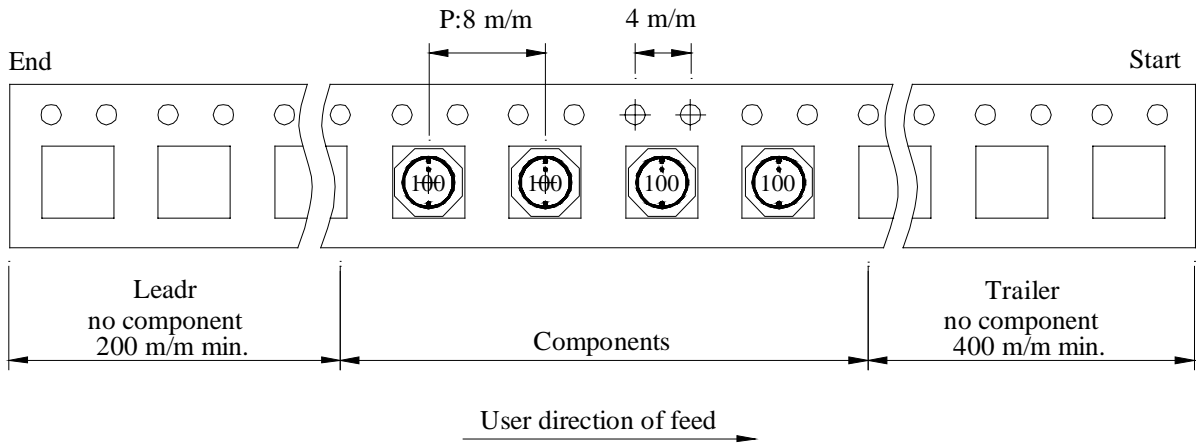
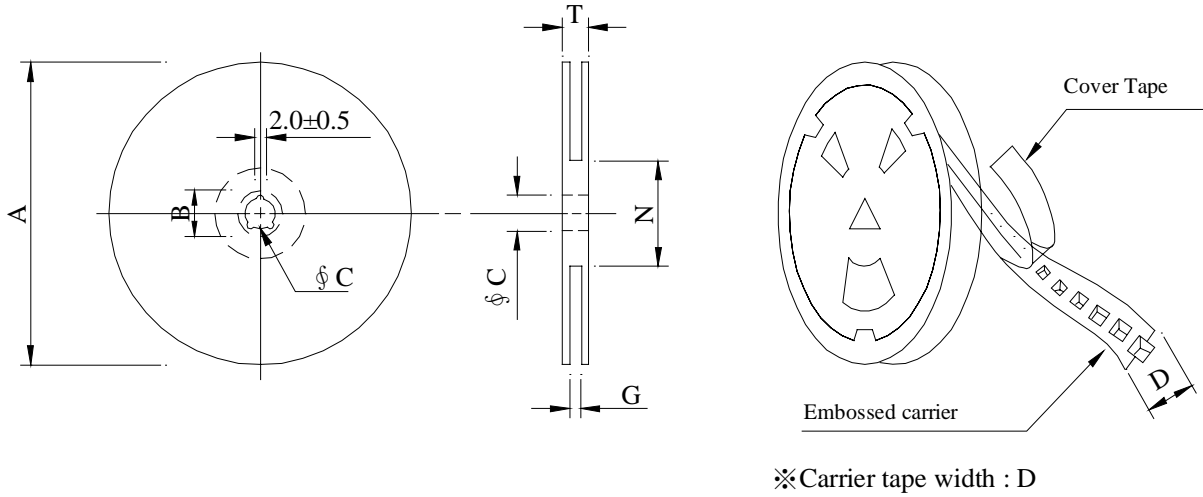
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5

(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)
SU5011	1,500	180	07 - 12	60,000	8.2	42 x 41 x 24

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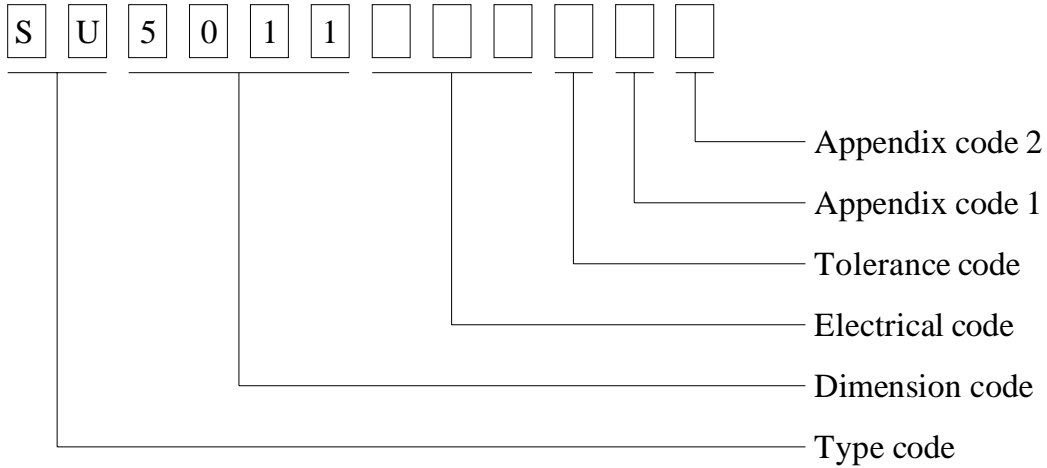
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VII . DWG EXPRESSION :



- Appendix code 1 : S : Standard products
 A~K , M~R , T~Z : Special products
 L : 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)	1,500 pcs	

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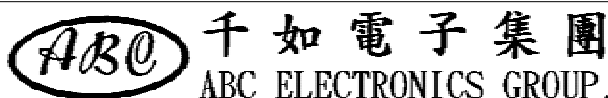
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		ABC'S ITEM NO.	

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="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; text-align: center;">—————</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">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; text-align: center;">—————</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">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; text-align: center;">—————</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">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; text-align: center;">—————</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">30 minutes</td> </tr> </table>	85±2 °C	—————		30 minutes
Room temp. 15 minutes	—————▶	<table style="border: none;"> <tr> <td style="border: none;">-25±2 °C</td> <td style="border: none; text-align: center;">—————</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">30 minutes</td> </tr> </table>	-25±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														

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU5011□□□□L□
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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 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 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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