

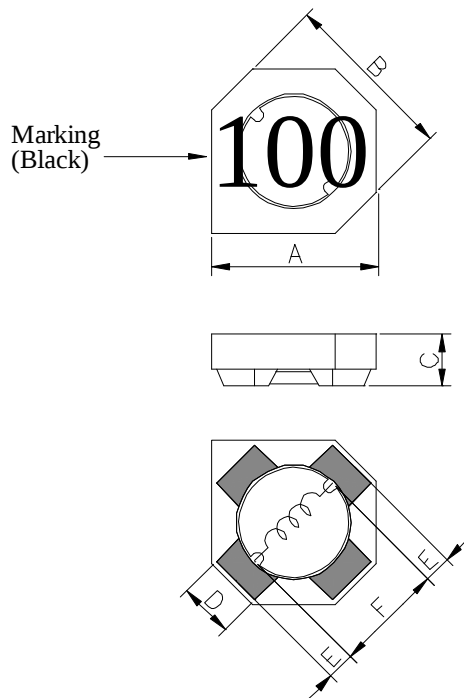
SPECIFICATION FOR APPROVAL

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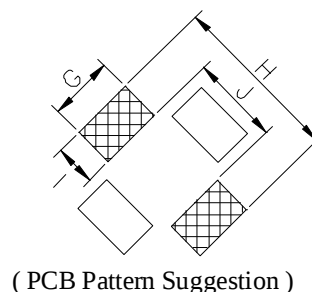
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU3017□□□□L□-□□□
		ABC'S ITEM NO.	

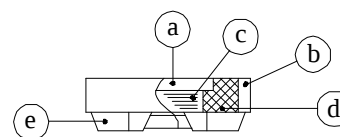
I . CONFIGURATION & DIMENSIONS :



A	:	3.30	±0.20	m/m
B	:	3.50	±0.20	m/m
C	:	1.80	±0.20	m/m
D	:	1.10	typ.	m/m
E	:	0.50	typ.	m/m
F	:	2.30	typ.	m/m
G	:	1.30	ref.	m/m
H	:	4.20	ref.	m/m
I	:	1.20	ref.	m/m
J	:	1.80	ref.	m/m



II . SCHEMATIC DIAGRAM :



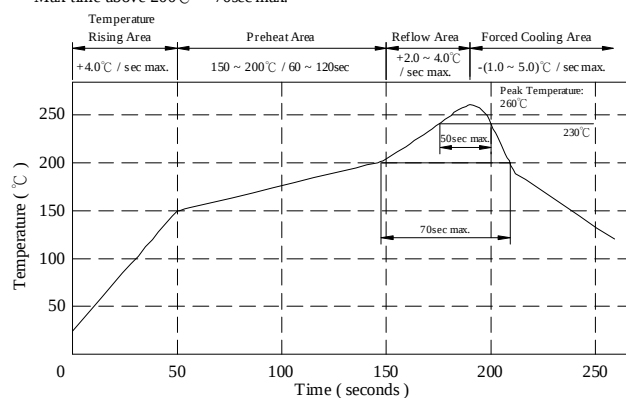
III . MATERIALS :

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

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 30°C typ.
- b . Rated current :
Base on temp. rise & $\Delta L / L_0 A = 35\%$ typ.
- c . Storage temp. : -40°C ---- +125°C
- d . Operating temp. : -40°C ---- +105°C
- e . Resistance to solder heat : 260°C .10 secs.

Peak Temp : 260°C max.
Max time above 230°C : 50sec max.
Max time above 200°C : 70sec max.



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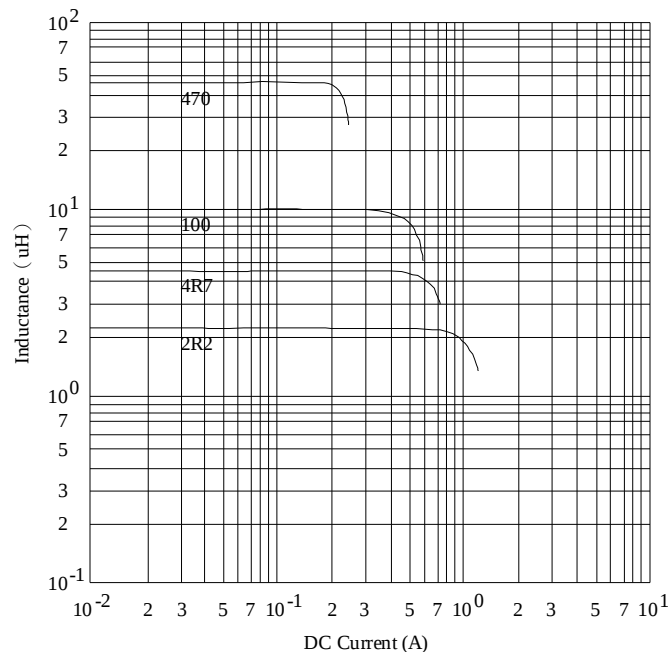
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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)0.1V		RDC (m Ω)		SRF (MHz) typ.	I _{rms} (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
SU30172R2YL□-□□□	2.2 $\pm$ 30 %	8.0	100K	7.96M	35	45	100	1700	980
SU30173R3YL□-□□□	3.3 $\pm$ 30 %	8.0	100K	7.96M	55	70	80	1450	800
SU30174R7YL□-□□□	4.7 $\pm$ 30 %	10.0	100K	7.96M	68	87	60	1100	630
SU30176R8YL□-□□□	6.8 $\pm$ 30 %	10.0	100K	7.96M	85	105	50	1000	530
SU3017100YL□-□□□	10.0 $\pm$ 30 %	15.0	100K	2.52M	120	150	40	850	470
SU3017150YL□-□□□	15.0 $\pm$ 30 %	20.0	100K	2.52M	175	220	35	680	350
SU3017220YL□-□□□	22.0 $\pm$ 30 %	20.0	100K	2.52M	250	320	30	600	300
SU3017330YL□-□□□	33.0 $\pm$ 30 %	20.0	100K	2.52M	430	550	20	470	250
SU3017470YL□-□□□	47.0 $\pm$ 30 %	18.0	100K	2.52M	540	670	18	360	210

- 1) . □ : Packaging Information. ☐A : Bulk ☐B : Taping Reel
- 2) . "-□□□" :Reference code
- 3) . Inductance Test Freq. : 100KHz / 0.1V
- 4) . I_{rms} base on Temp. rise 30°C typ.
- 5) . Isat base on $\Delta L / L0A=35\%$ typ.

@ Inductance VS. DC Current Curve :



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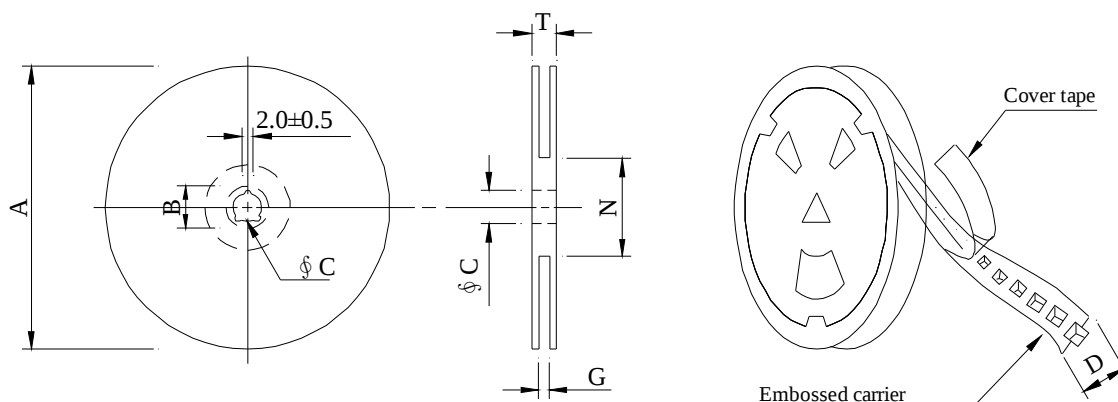
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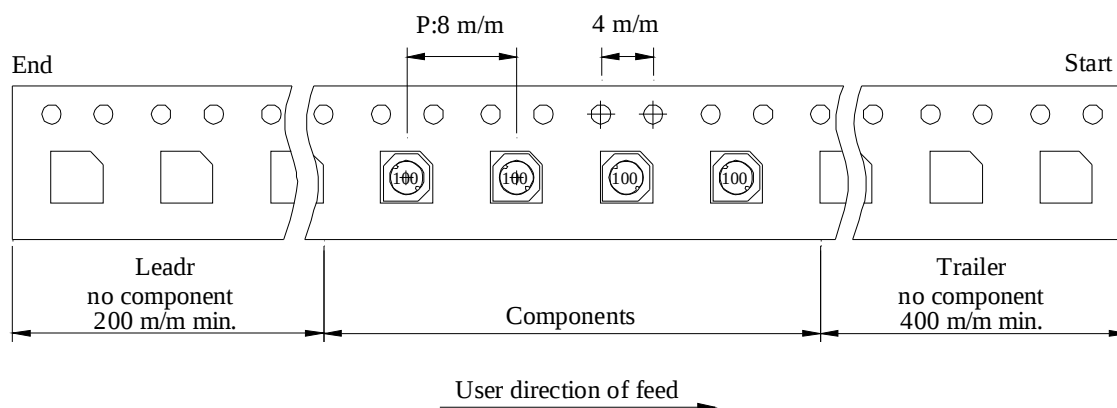
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 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)
SU3017	800	100	07 - 12	32000	7.00	42 x 41 x 24

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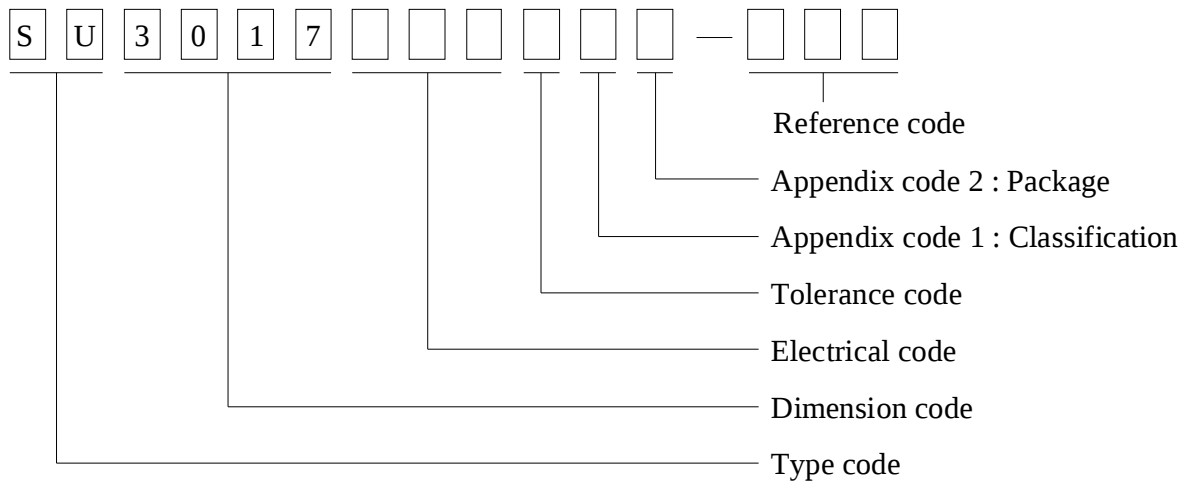
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NAME		ABC'S ITEM NO.	

VII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

L : 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)	800 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℃ / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5℃ Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. → -40 ℃ 15 minutes 30 minutes Room temp. → +105 ℃ 15 minutes 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 105±5℃ Applied current : Per spec. Time : 96 hours

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NAME	POWER INDUCTOR	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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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 - 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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		ABC'S ITEM NO.	

OBMW2

August 27, 1999

Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) 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	E 180	Polyesterimide (solderable)	----	MW-77	180
Amldestor 200	A 200	Polyesterimide	----	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P 155	Polyurethane	----	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurethane	----	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurethane	----	MW-79	155
Polysol 160	P 160	Polyurethane	----	MW-79	155
Polysol 180	P 180	Polyurethane	----	MW-79	155
Polysol 170	P 170 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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