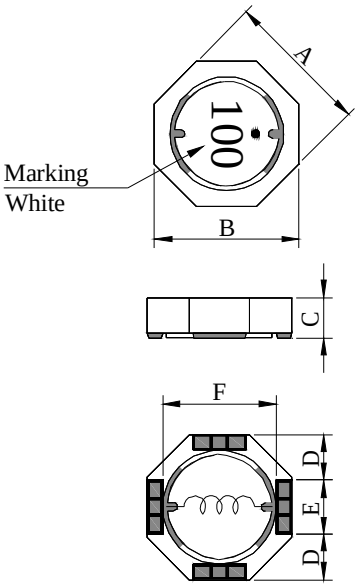
SPECIFICATION FOR APPROVAL

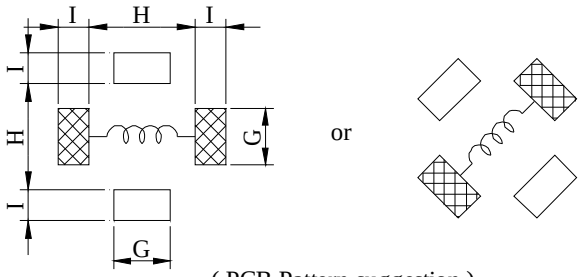
REF :20080804-A PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅰ．CONFIGURATION & DIMENSIONS：

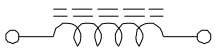


A	:	6.20 ±0.30	m/m
B	:	6.50 ±0.30	m/m
C	:	1.40 ±0.20	m/m
D	:	2.15 typ	m/m
E	:	2.20 typ	m/m
F	:	4.90 typ	m/m
G	:	2.40 ref	m/m
H	:	4.90 ref	m/m
I	:	1.10 ref	m/m



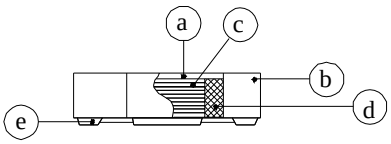
(PCB Pattern suggestion)

Ⅱ．SCHEMATIC DIAGRAM：

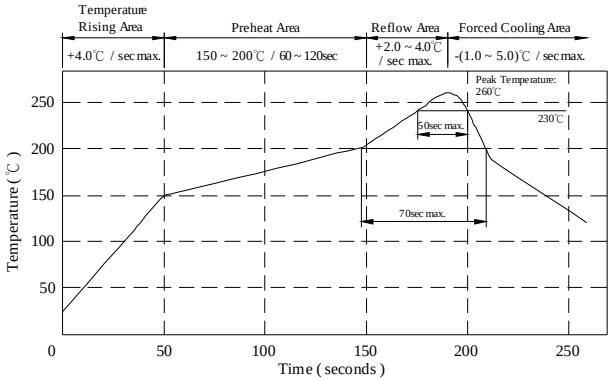


Ⅲ．MATERIALS：

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



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



Ⅳ．GENERAL SPECIFICATION：

a．Temp. rise ：40℃ typ.
b．Rated current：
Base on temp. rise & △L / L0A=35% typ.
c．Storage temp.：-40℃ ----+125℃
d．Operating temp.：-40℃----+105℃
e．Resistance to solder heat：260℃.10 secs.

千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (mΩ)		SRF (MHz)	Irms (mA)	Isat (mA)
			L	Q	typ.	max.	typ.	typ.	typ.
SU60131R0YF□-□□□	1.0±30%	12	100K	7.96M	28	36	100	3200	2900
SU60131R5YF□-□□□	1.5±30%	10	100K	7.96M	32	40	90	3000	2400
SU60132R2YF□-□□□	2.2±30%	10	100K	7.96M	40	50	80	2500	2100
SU60133R3YF□-□□□	3.3±30%	10	100K	7.96M	45	60	70	2350	1750
SU60134R2YF□-□□□	4.2±30%	10	100K	7.96M	58	75	55	2100	1500
SU60136R4YF□-□□□	6.4±30%	10	100K	7.96M	85	110	45	1700	1300
SU6013100YF□ -□□□	10.0±30%	14	100K	2.52M	132	165	35	1400	1000
SU6013150YF□ -□□□	15.0±30%	12	100K	2.52M	180	235	26	1100	800
SU6013220YF□ -□□□	22.0±30%	12	100K	2.52M	260	325	22	950	720
SU6013330YF□ -□□□	33.0±30%	10	100K	2.52M	400	500	18	780	580
SU6013470YF□ -□□□	47.0±30%	10	100K	2.52M	540	675	14	660	500
SU6013680YF□ -□□□	68.0±30%	10	100K	2.52M	720	900	10	600	400

1) . □ : Packaging Information... A : Bulk B : Taping Reel

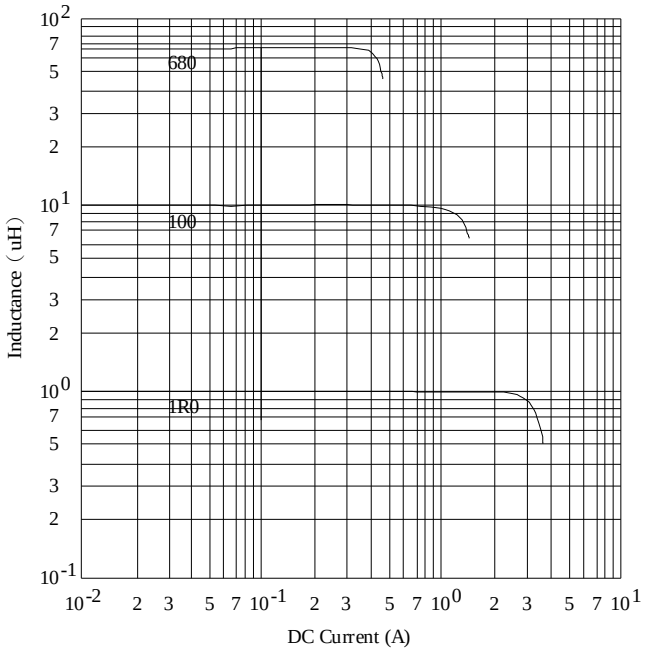
2)."- □□□":Reference code

3) . Inductance Test Freq. : 100KHz / 0.1V

4) . Isat base on △L / L0A=35% typ.

5) . Irms base on Temp. rise 40℃ typ.

@ Inductance VS. DC Current Curve



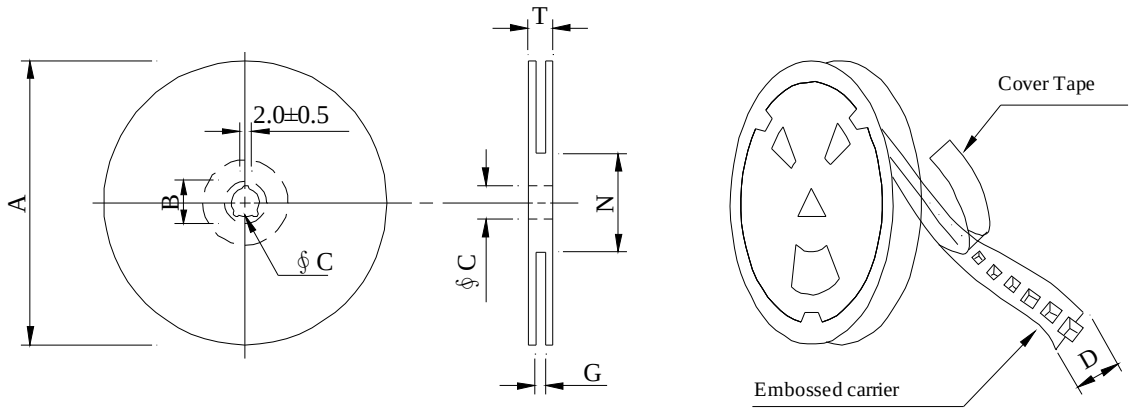
千如電子集團 ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

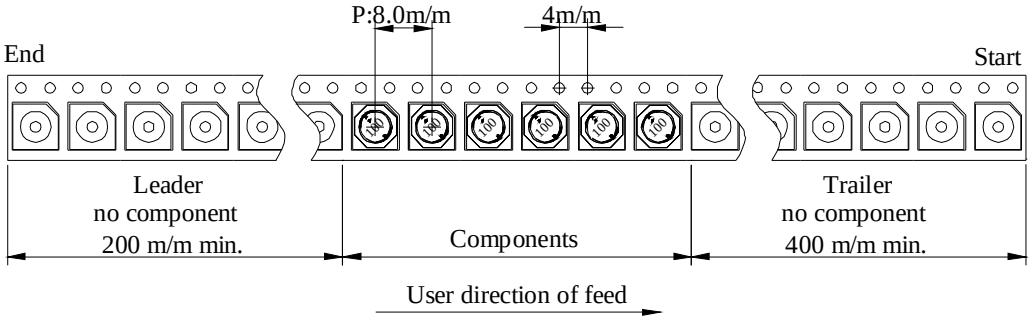
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		ABC'S ITEM NO.	

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±0.5	12	14^{+0}	50^{-0}	18.4

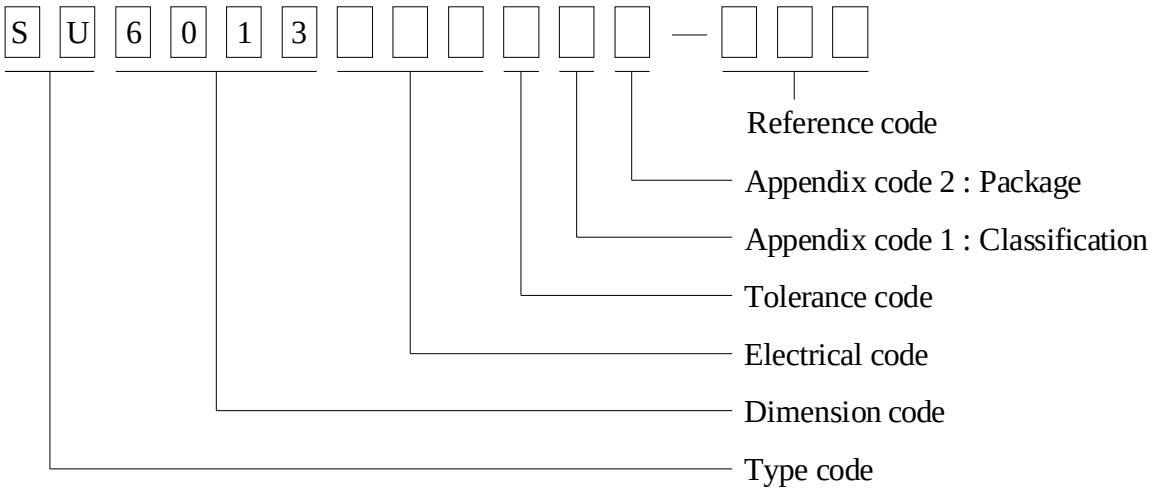
(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SU6013	1000	230	07 - 12	40,000	8.5	42 x 41 x 24

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		ABC'S ITEM NO.	

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 QTY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	1000 pcs	

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		ABC'S ITEM NO.	

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. 15 minutes → -40 ℃ 30 minutes Room temp. 15 minutes → +105 ℃ 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

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□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	Coat Typ 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

287806002 Page 1 of 2

A not-for-profit organization dedicated to public safety and committed to quality service

Mtl Dsg	Mark Dsg	Coat Typ 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 magned 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.

287806002 Page 2 of 2 OBMW2/E174837
September 8 , 2000

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6013□□□□F□-□□□
		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

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

Marking：Dompany name/nateriel designation or marked designation and factory identification on package ok reel

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.