

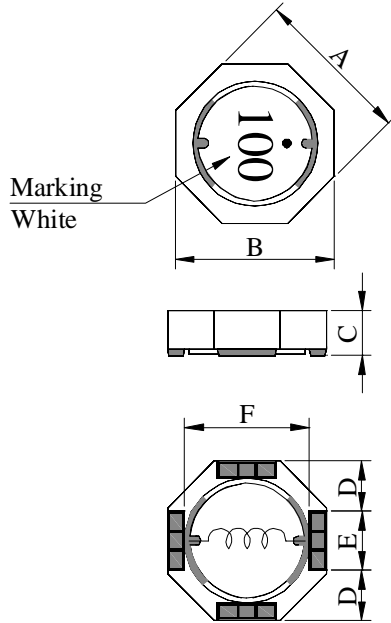
SPECIFICATION FOR APPROVAL

REF :

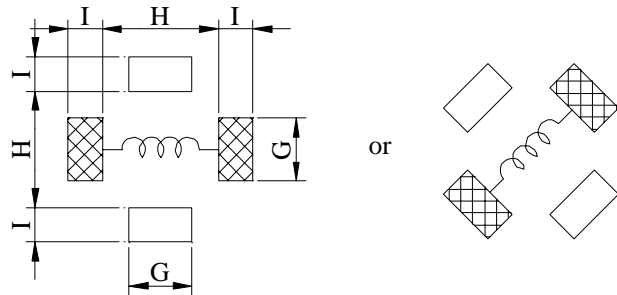
PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6018□□□□F□-□□□
		ABC'S ITEM NO.	

. CONFIGURATION & DIMENSIONS :



A :	6.20 ±0.30	m/m
B :	6.50 ±0.30	m/m
C :	1.80 ±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



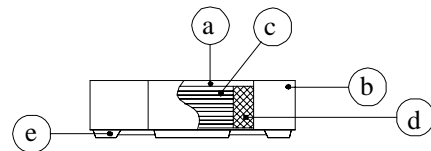
(PCB Pattern suggestion)

. SCHEMATIC DIAGRAM :

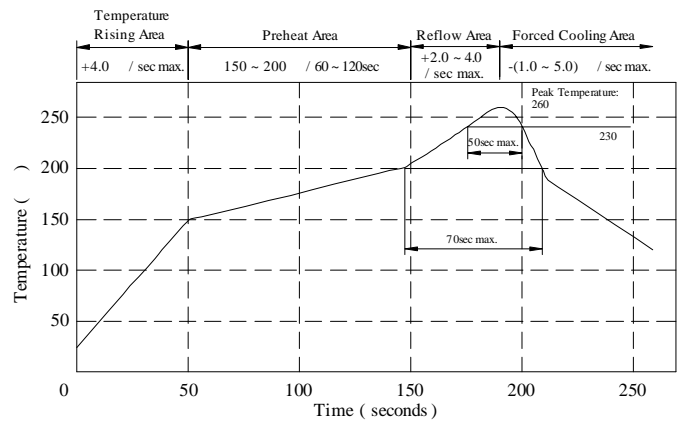


. MATERIALS :

- 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 : Products comply with RoHS' requirements



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



. GENERAL SPECIFICATION :

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

AE-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

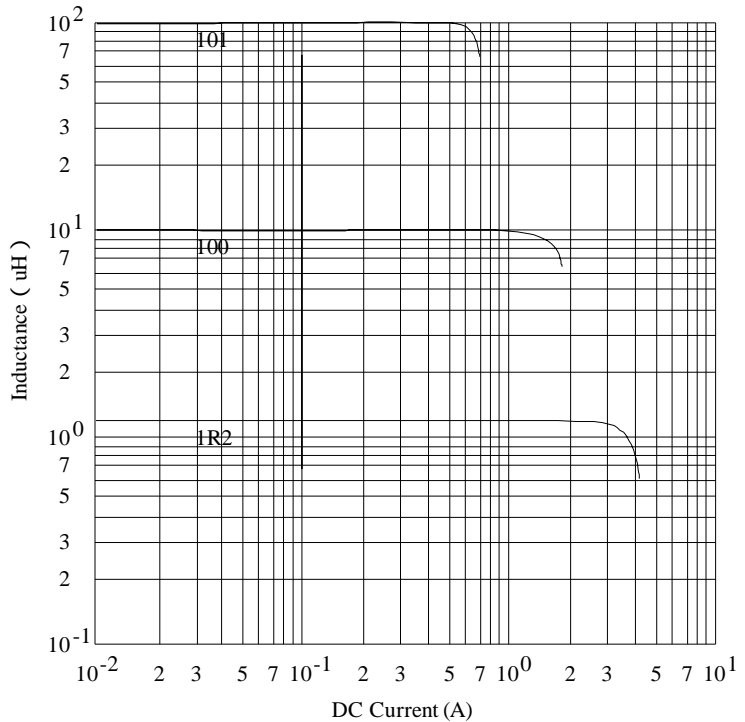
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6018□□□□F□-□□□
		ABC'S ITEM NO.	

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.
SU60181R2YF□-□□□	1.2±30%	8	100K	7.96M	19	25	130	3600	2800
SU60181R8YF□-□□□	1.8±30%	8	100K	7.96M	22	28	90	3000	2300
SU60183R3YF□-□□□	3.3±30%	8	100K	7.96M	28	36	60	2500	1700
SU60184R7YF□-□□□	4.7±30%	8	100K	7.96M	32	42	50	2200	1400
SU60186R8YF□-□□□	6.8±30%	8	100K	7.96M	46	60	40	1900	1200
SU6018100YF□-□□□	10.0±30%	12	100K	2.52M	68	88	30	1700	1000
SU6018150YF□-□□□	15.0±30%	12	100K	2.52M	100	130	24	1500	800
SU6018220YF□-□□□	22.0±30%	14	100K	2.52M	145	190	18	1200	650
SU6018330YF□-□□□	33.0±30%	10	100K	2.52M	195	255	16	1000	580
SU6018470YF□-□□□	47.0±30%	12	100K	2.52M	315	410	14	800	460
SU6018680YF□-□□□	68.0±30%	12	100K	2.52M	455	600	12	620	360
SU6018101YF□-□□□	100.0±30%	20	100K	796K	550	715	9	550	340

- 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 30 typ.

@ Inductance VS. DC Current Curve



AE-001A



SPECIFICATION FOR APPROVAL

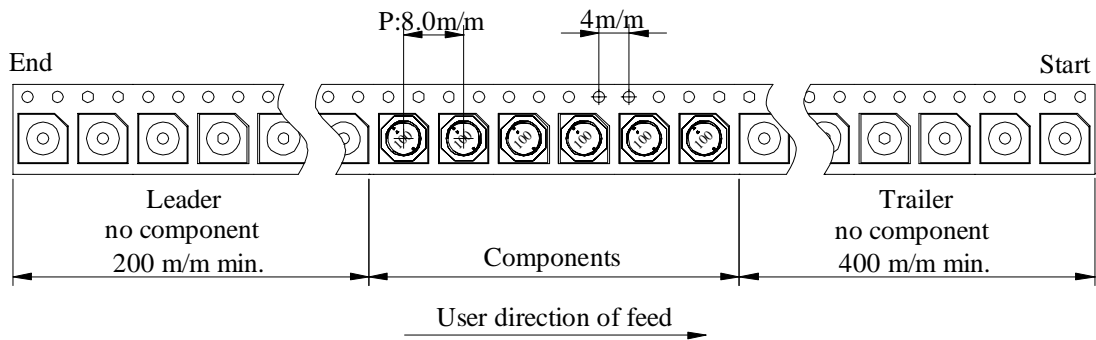
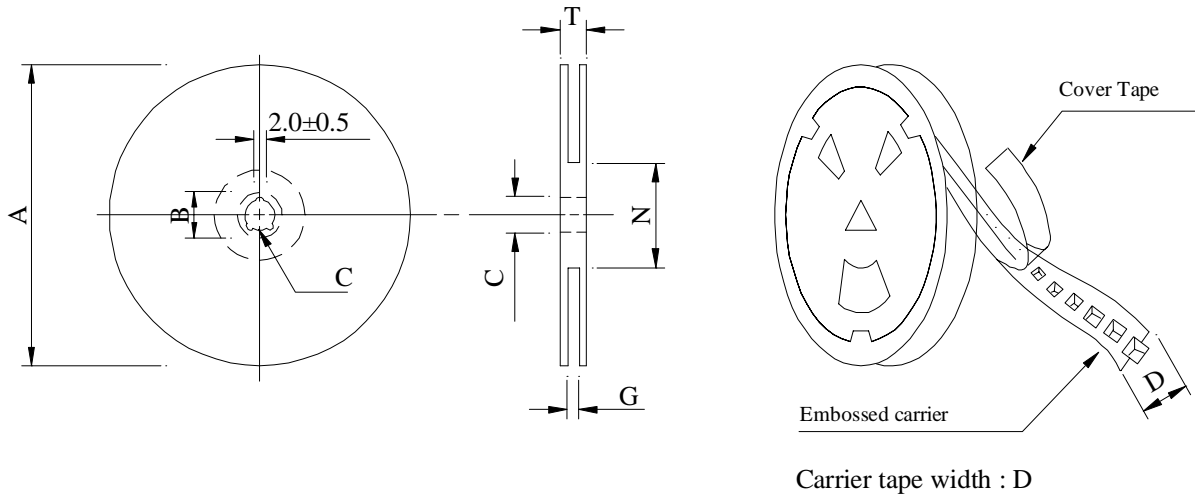
REF :

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU6018□□□□F□-□□□
------------	--------------------------------	---------------------------------	------------------

PACKAGING INFORMATION :

(1) Configuration



(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)
SU6018	800	180	07 - 12	32,000	8.2	42 x 41 x 24

AE-001A

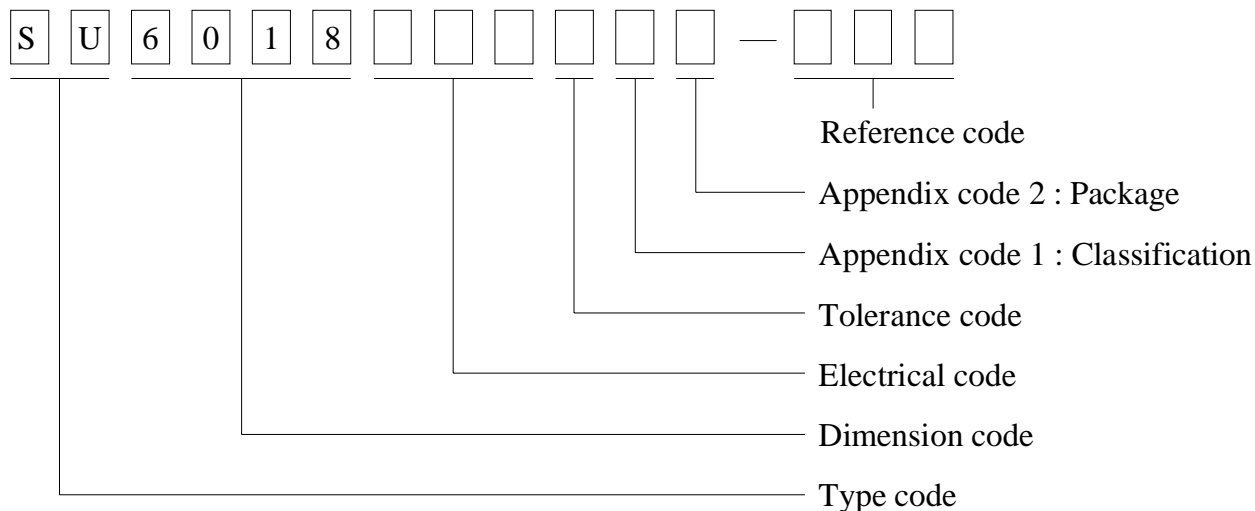
SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6018□□□□F□-□□□
		ABC'S ITEM NO.	

. 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	

SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU6018□□□□F□-□□□
---------------	--------------------------------	---------------------------------	------------------

. RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±30%	<table style="margin: auto;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><u>-25±2</u> 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;"><u>85±2</u> 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	<u>-25±2</u> 30 minutes	Room temp. 15 minutes	→	<u>85±2</u> 30 minutes
Room temp. 15 minutes		→	<u>-25±2</u> 30 minutes					
Room temp. 15 minutes		→	<u>85±2</u> 30 minutes					
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test	Temperature : 105±2 Applied current : Per spec. Time : 500 hours							

SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU6018□□□□F□-□□□
		ABC'S ITEM NO.	

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
L.SFFW	---	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	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 - signi-
fies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks 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

OBMW2E174837
September 8, 2000

AE-001A

