

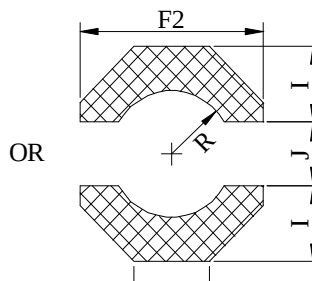
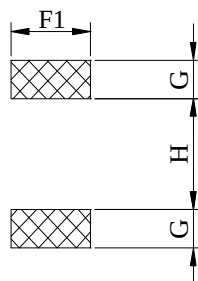
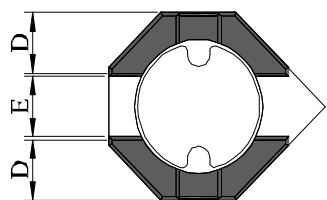
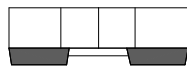
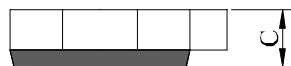
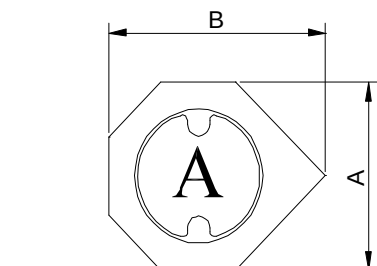
SPECIFICATION FOR APPROVAL

REF :

PAGE: 1

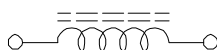
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2013□□□□P□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :



A	: 2.80 ±0.20	m/m
B	: 3.30 ±0.20	m/m
C	: 1.35 ±0.15	m/m
D	: 0.90 typ.	m/m
E	: 0.90 typ.	m/m
F1	: 1.30 ref.	m/m
F2	: 3.00 ref.	m/m
G	: 0.65 ref.	m/m
H	: 2.10 ref.	m/m
I	: 1.20 ref.	m/m
J	: 1.00 ref.	m/m
R	: 1.00 ref.	m/m

II . SCHEMATIC DIAGRAM :



(PCB Pattern Suggestion)

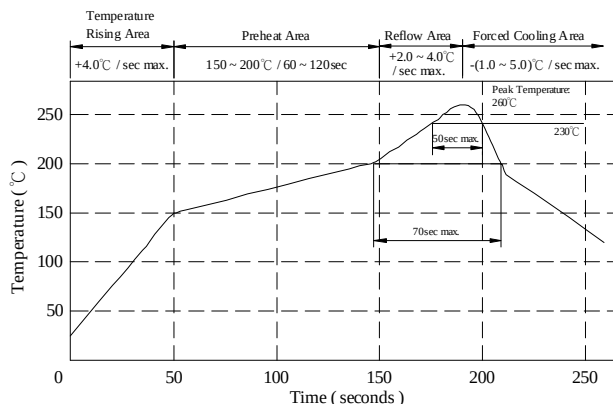
III . MATERIALS :

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

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 40°C typ.
- b . Storage temp. : -40°C ---+125°C
- c . Operating temp. : -40°C ---+105°C
- d . 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.



AR-001A

ABC 千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2013□□□□P□-□□□
		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m Ω)		I _{rms} (mA) typ.	I _{sat} (mA) typ.	Marking
					typ.	max.			
SU20131R0YP□-□□□	1.0 $\pm$ 30 %	9	7.96	180	48	65	2200	1600	A
SU20132R2YP□-□□□	2.2 $\pm$ 30 %	10	7.96	100	90	120	1450	950	C
SU20133R3YP□-□□□	3.3 $\pm$ 30 %	10	7.96	80	105	135	1000	860	E
SU20134R7YP□-□□□	4.7 $\pm$ 30 %	10	7.96	72	165	220	900	750	F
SU20136R8YP□-□□□	6.8 $\pm$ 30 %	10	7.96	60	255	330	800	600	G
SU2013100YP□-□□□	10.0 $\pm$ 30 %	12	2.52	40	395	520	670	450	H
SU2013150YP□-□□□	15.0 $\pm$ 30 %	12	2.52	30	650	850	460	400	I
SU2013220YP□-□□□	22.0 $\pm$ 30 %	12	2.52	25	950	1250	400	350	J
SU2013330YP□-□□□	33.0 $\pm$ 30 %	12	2.52	20	1400	1820	300	250	K
SU2013470YP□-□□□	47.0 $\pm$ 30 %	14	2.52	15	2200	2860	250	230	L

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

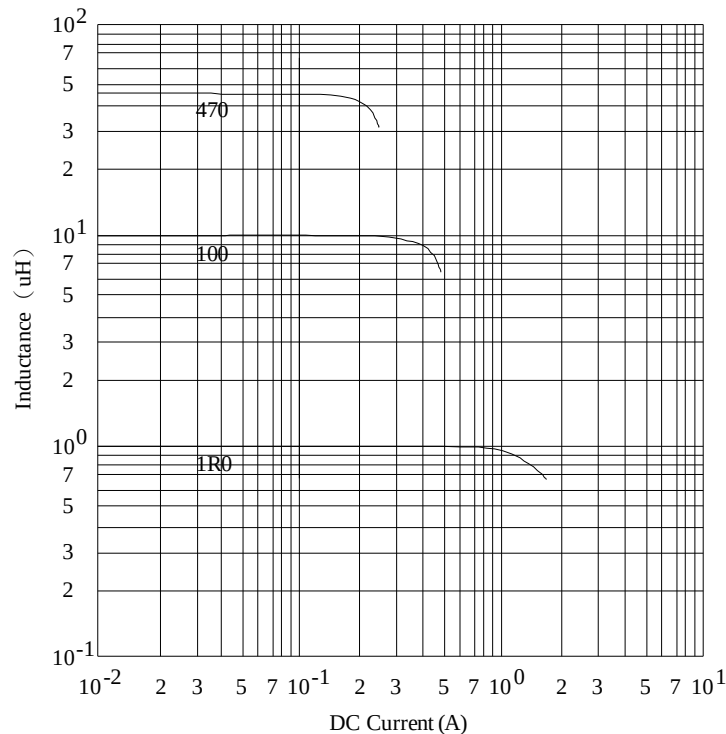
2). "-□□□" : Reference code

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

4). I_{rms} base on Temp. rise 40°C typ.

5). I_{sat} base on $\Delta L / L_0 A = 35\%$ typ.

@ Inductance VS. DC Current Curve



SPECIFICATION FOR APPROVAL

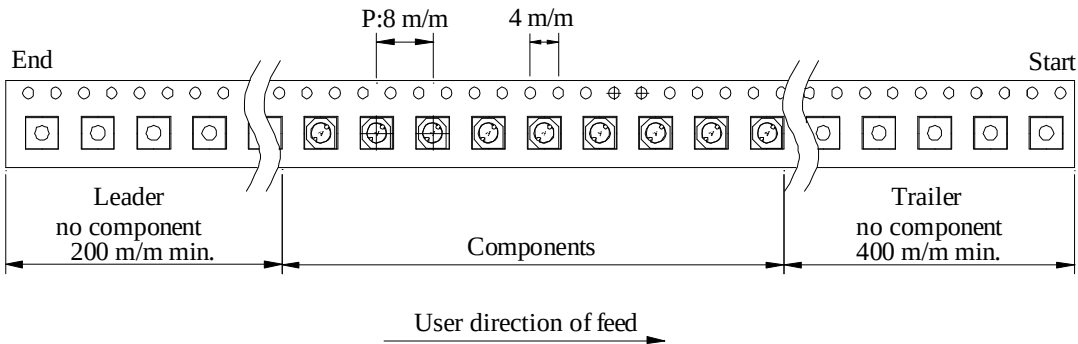
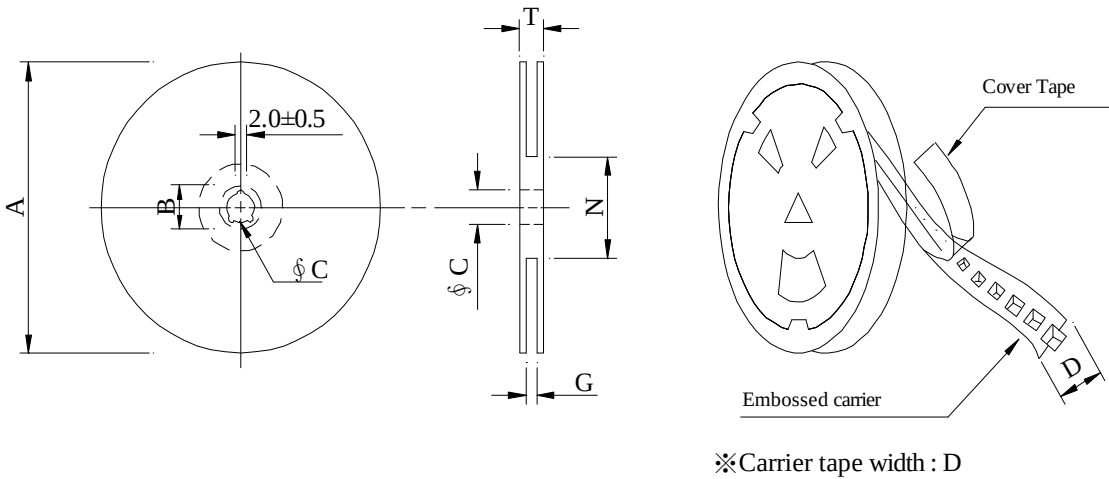
REF :

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2013□□□□P□-□□□
		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)
SU2013	1,200	120	07 - 12	48,000	4.8	42 x 41 x 24

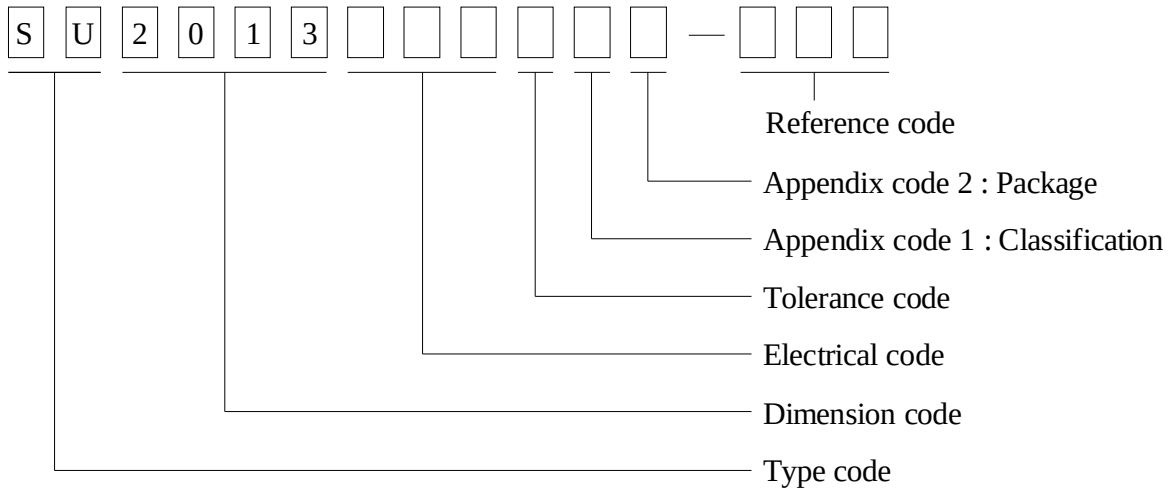
SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2013□□□□P□-□□□
		ABC'S ITEM NO.	

VII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

P : 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)	1,200 pcs	

SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

PROD.	SHIELDED SMD	ABC'S DWG NO.	SU2013□□□□P□-□□□
NAME	POWER INDUCTOR	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. $\longrightarrow$ -40 ℃ 15 minutes $\longrightarrow$ 30 minutes Room temp. $\longrightarrow$ +105 ℃ 15 minutes $\longrightarrow$ 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



SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2013□□□□P□-□□□
		ABC'S ITEM NO.	

IX . UL CARD :

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	E180	Polyesterimide (solderable)	—	MW-77	180
Amldester 200	A200	Polyesterimide	—	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurethane	—	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurethane	—	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurethane	—	MW-79	155
Polysol 160	P160	Polyurethane	—	MW-79	155
Polysol 180	P180	Polyurethane	—	MW-79	155
Polysol 170	P170 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

See General Information preceding These Recognitions

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

AR-001A



千如電子集團
ABC ELECTRONICS GROUP.