

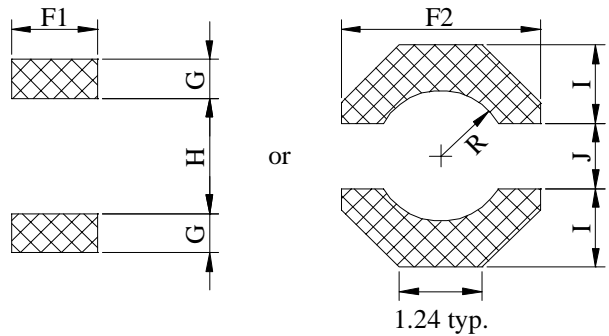
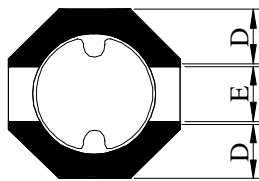
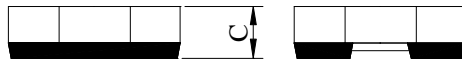
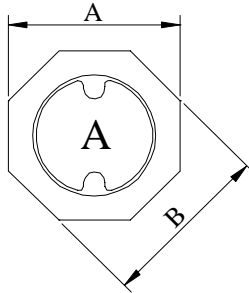
# SPECIFICATION FOR APPROVAL

REF : 20070101-A

PAGE: 1

PROD. NAME	<b>SHIELDED SMD POWER INDUCTOR</b>	ABC'S DWG NO. ABC'S ITEM NO.	SU2009□□□□L□-□□□
---------------	--	---------------------------------	------------------

**. CONFIGURATION & DIMENSIONS :**



- A : 2.80 ±0.20 m/m
- B : 2.80 ±0.20 m/m
- C : 0.90 ±0.10 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

**. SCHEMATIC DIAGRAM :**



( PCB Pattern Suggestion )

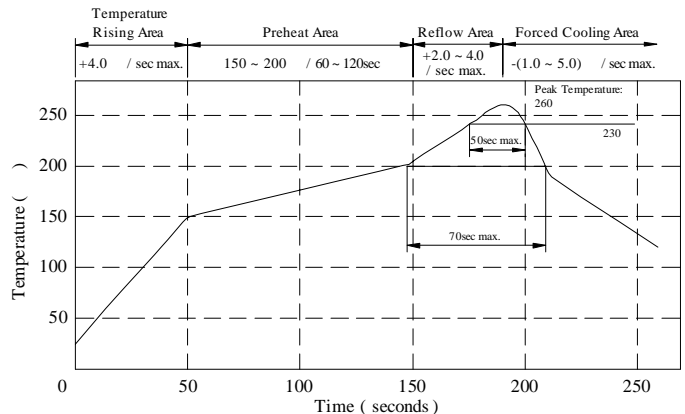
**. MATERIALS :**

- 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

**. GENERAL SPECIFICATION :**

- a . Temp. rise : 40 typ.
- b . Storage temp. : -40 ----+125
- c . Operating temp. : -40 ----+105
- d . Resistance to solder heat : 260 .10 secs.

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



# SPECIFICATION FOR APPROVAL

REF : 20070101-A

PAGE: 2

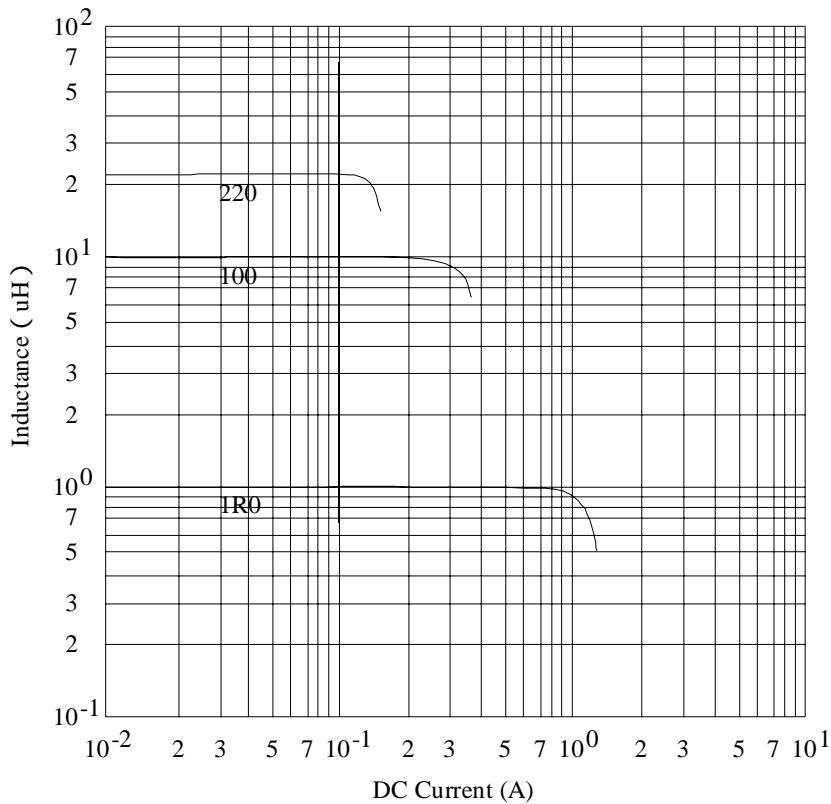
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2009□□□□L□-□□□
		ABC'S ITEM NO.	

**ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m $\Omega$ )		I <sub>rms</sub> (mA) typ.	I <sub>sat</sub> (mA) typ.	Marking
					typ.	max.			
SU20091R0YL□-□□□	1.0 $\pm$ 30 %	7	7.96	200	80	110	1450	1300	A
SU20092R2YL□-□□□	2.2 $\pm$ 30 %	7	7.96	120	160	210	1100	800	C
SU20093R3YL□-□□□	3.3 $\pm$ 30 %	7	7.96	100	240	320	800	600	E
SU20094R4YL□-□□□	4.4 $\pm$ 30 %	7	7.96	85	320	430	680	500	F
SU20096R8YL□-□□□	6.8 $\pm$ 30 %	7	7.96	70	500	650	520	450	G
SU2009100YL□-□□□	10.0 $\pm$ 30 %	10	2.52	50	825	1080	400	350	H
SU2009150YL□-□□□	15.0 $\pm$ 30 %	10	2.52	40	1050	1370	300	300	I
SU2009220YL□-□□□	22.0 $\pm$ 30 %	10	2.52	30	2000	2600	220	220	J

- 1). □: Packaging Information... **A**: Bulk   **B**: Taping Reel
- 2). "- □□□": Reference code
- 3). Inductance Test Freq. : 100KHz /0.1V
- 4). I<sub>rms</sub> base on Temp. rise 40   typ.
- 5). I<sub>sat</sub> base on   L / LOA=35% typ.

@ Inductance VS. DC Current Curve



AR-001A



# SPECIFICATION FOR APPROVAL

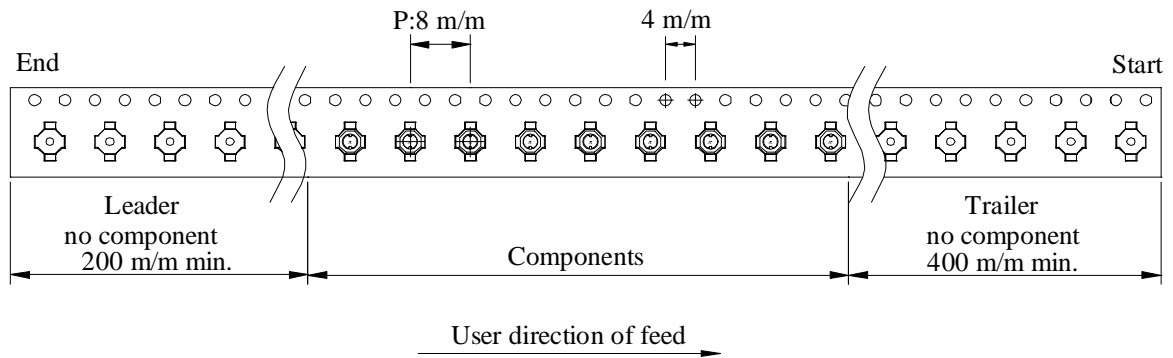
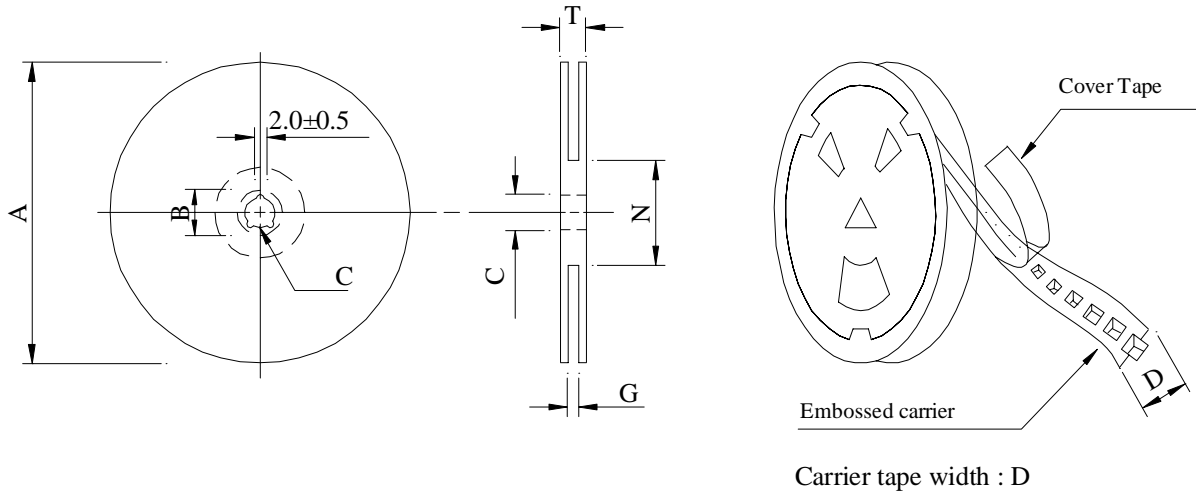
REF : 20070101-A

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2009□□□□L□-□□□
		ABC'S ITEM NO.	

**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 <sup>+0</sup>	50 <sup>-0</sup>	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)
SU2009	1,500	165	07 - 12	60,000	6.6	42 x 41 x 24

AR-001A

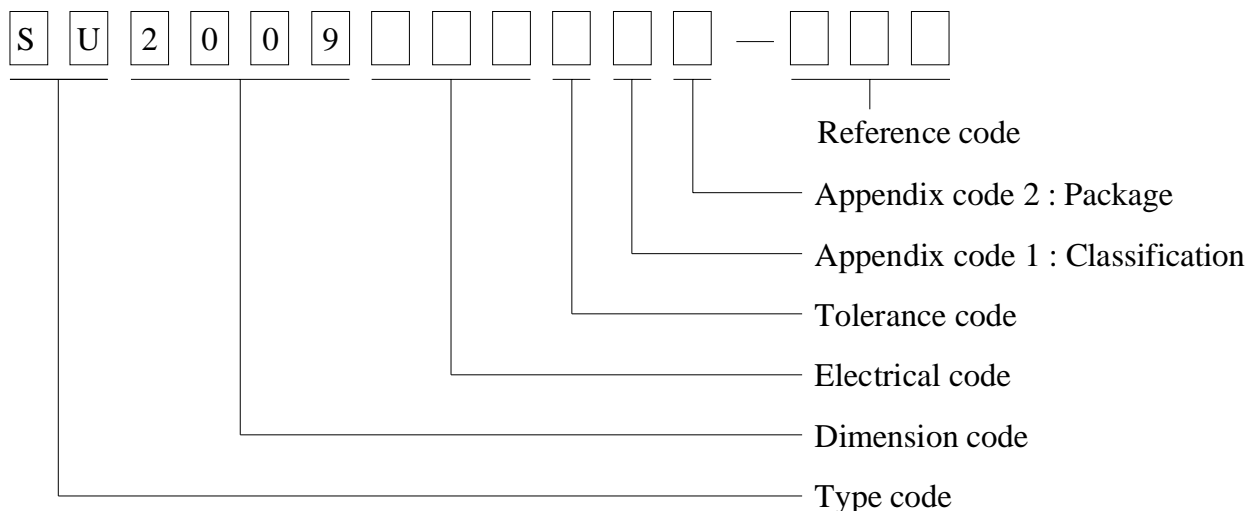
# SPECIFICATION FOR APPROVAL

REF : 20070101-A

PAGE: 4

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2009□□□□L□-□□□
		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 )	1,500 pcs	

# SPECIFICATION FOR APPROVAL

REF : 20070101-A

PAGE: 5

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU2009□□□□L□-□□□
---------------	--------------------------------	---------------------------------	------------------

**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 ±20%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25±2 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;">85±2 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 30 minutes	Room temp. 15 minutes	→	85±2 30 minutes
Room temp. 15 minutes	→	-25±2 30 minutes						
Room temp. 15 minutes	→	85±2 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 : 20070101-A

PAGE: 6

<b>PROD.</b>	<b>SHIELDED SMD</b>	<b>ABC'S DWG NO.</b>	<b>SU2009□□□□L□-□□□</b>
<b>NAME</b>	<b>POWER INDUCTOR</b>	<b>ABC'S ITEM NO.</b>	

. UL CARD :

OBMW2 August 27, 1999

Magnet Wire-Component

ELEKTRISOLA (MALAYSIA) 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.