

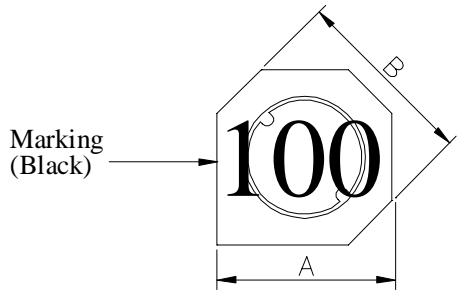
# SPECIFICATION FOR APPROVAL

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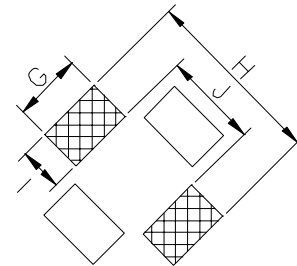
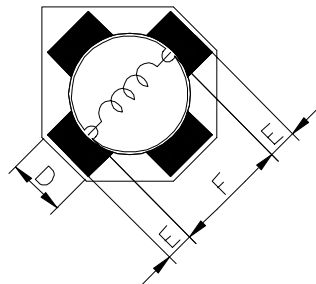
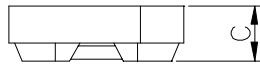
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU3014□□□□L□-□□□
		ABC'S ITEM NO.	

**. CONFIGURATION & DIMENSIONS :**

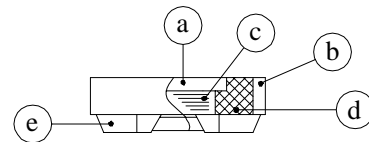


A	: 3.30 ±0.20	m/m
B	: 3.50 ±0.20	m/m
C	: 1.40 ±0.20	m/m
D	: 1.10 typ.	m/m
E	: 0.50 typ.	m/m
F	: 2.30 typ.	m/m
G	: 1.30 ref.	m/m
H	: 4.20 ref.	m/m
I	: 1.20 ref.	m/m
J	: 1.80 ref.	m/m



( PCB Pattern Suggestion )

**. SCHEMATIC DIAGRAM :**



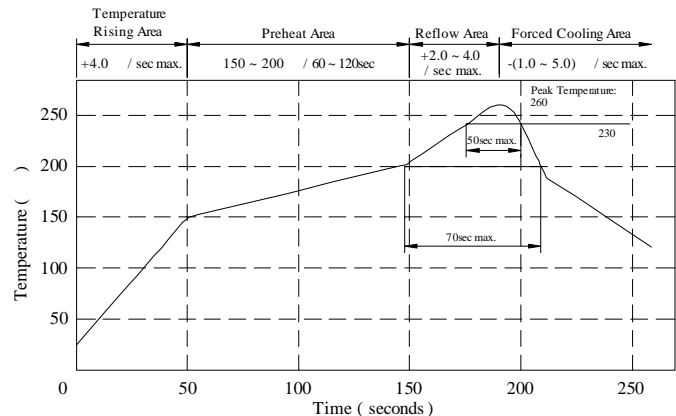
**. MATERIALS :**

- 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 : 40 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.



# SPECIFICATION FOR APPROVAL

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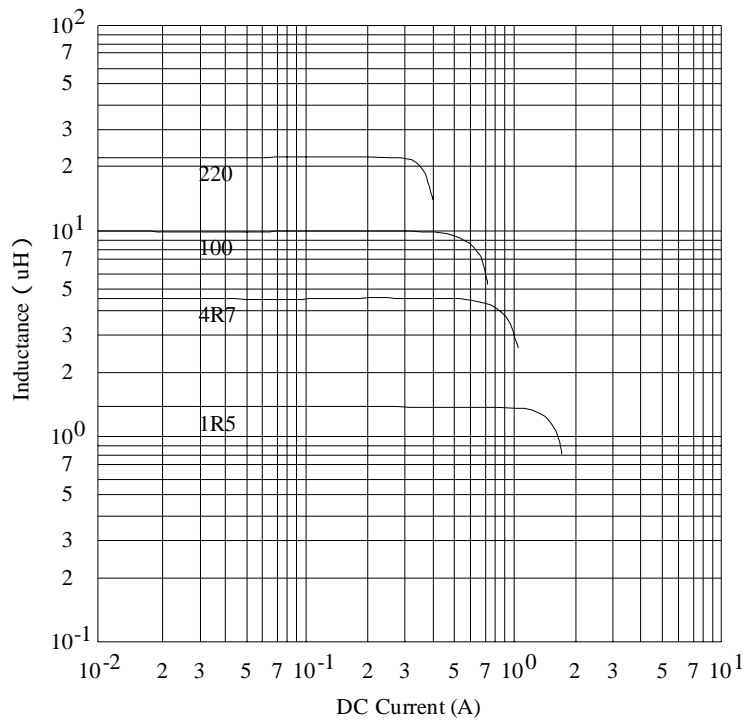
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**ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq. ( Hz )		RDC ( m $\Omega$ )		SRF ( MHz ) typ.	I <sub>rms</sub> ( mA ) typ.	I <sub>sat</sub> ( mA ) typ.
			L	Q	typ.	max.			
SU30141R2YL□-□□□	1.2 $\pm$ 30 %	12.0	100K	7.96M	38	55	150	1850	1900
SU30141R5YL□-□□□	1.5 $\pm$ 30 %	12.0	100K	7.96M	51	63	120	1550	1600
SU30142R0YL□-□□□	2.0 $\pm$ 30 %	10.0	100K	7.96M	75	95	110	1100	1300
SU30143R0YL□-□□□	3.0 $\pm$ 30 %	12.0	100K	7.96M	95	135	80	1000	1100
SU30144R7YL□-□□□	4.7 $\pm$ 30 %	15.0	100K	7.96M	130	165	70	820	920
SU30146R8YL□-□□□	6.8 $\pm$ 30 %	10.0	100K	7.96M	180	230	50	700	780
SU3014100YL□-□□□	10.0 $\pm$ 30 %	30.0	100K	2.52M	235	290	40	640	660
SU3014150YL□-□□□	15.0 $\pm$ 30 %	35.0	100K	2.52M	440	550	30	400	460
SU3014220YL□-□□□	22.0 $\pm$ 30 %	35.0	100K	2.52M	700	875	25	320	360

- 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 :



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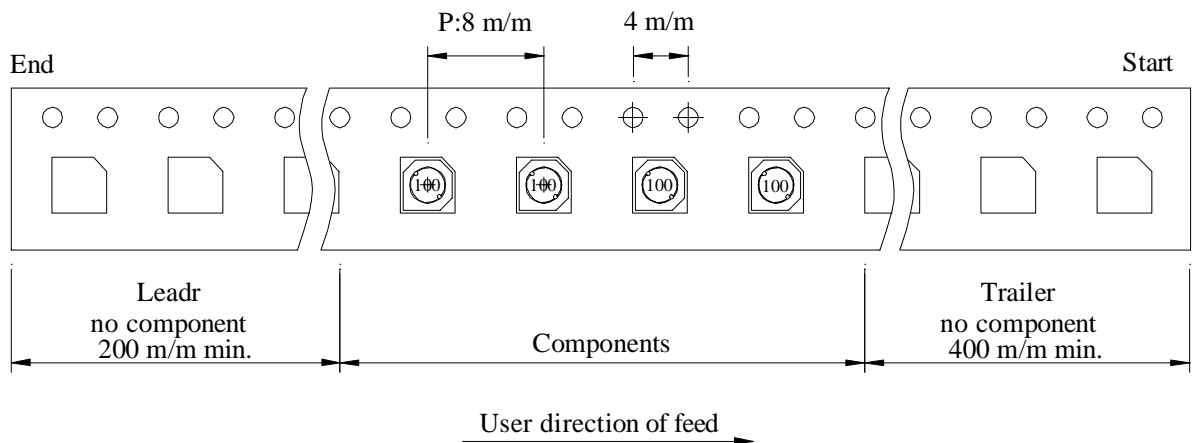
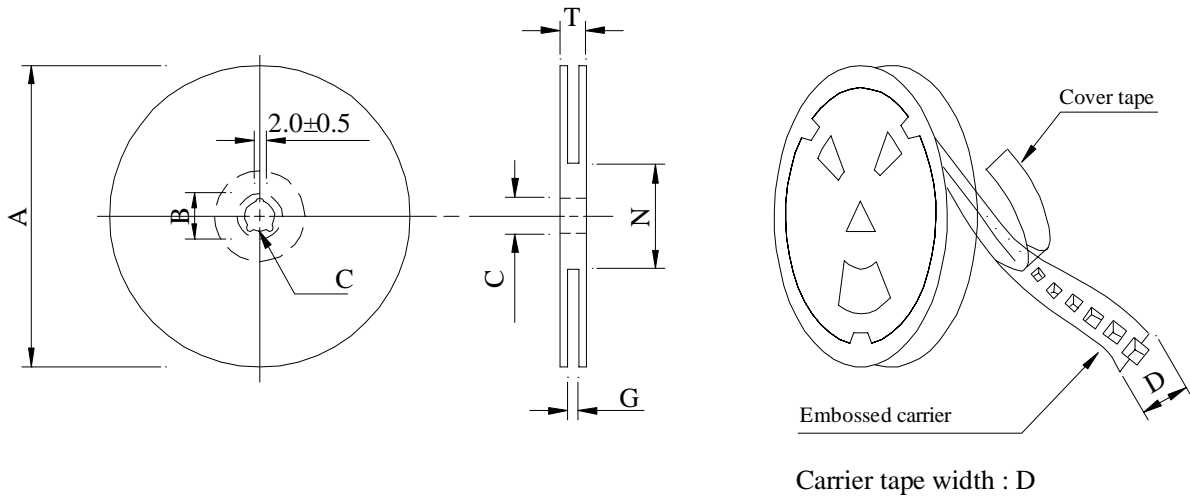
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**PACKAGING INFORMATION :**

( 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)
SU3014	1,200	150	07 - 12	48,000	8.50	42 x 41 x 24

AE-001A

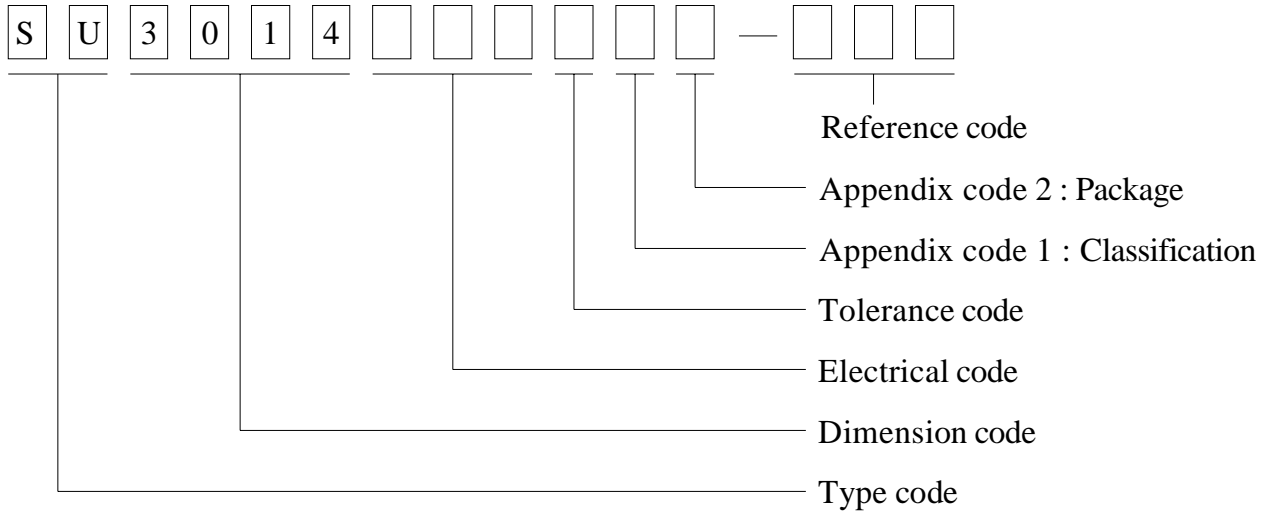
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. DWGING NUMBER EXPRESSION :



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 )	1,200 pcs	

# SPECIFICATION FOR APPROVAL

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. 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="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;"><math>\frac{-25\pm 2}{30 \text{ minutes}}</math></td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><math>\frac{85\pm 2}{30 \text{ minutes}}</math></td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	$\frac{-25\pm 2}{30 \text{ minutes}}$	Room temp. 15 minutes	→	$\frac{85\pm 2}{30 \text{ minutes}}$
Room temp. 15 minutes		→	$\frac{-25\pm 2}{30 \text{ minutes}}$					
Room temp. 15 minutes		→	$\frac{85\pm 2}{30 \text{ minutes}}$					
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							

