

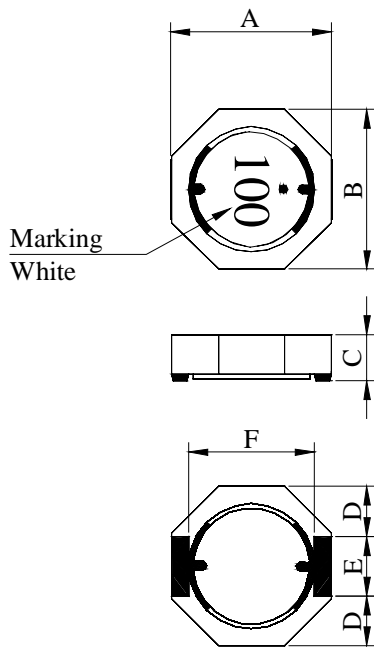
SPECIFICATION FOR APPROVAL

REF :

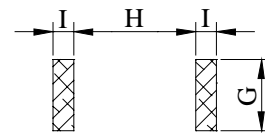
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SU1038□□□□F□-□□□
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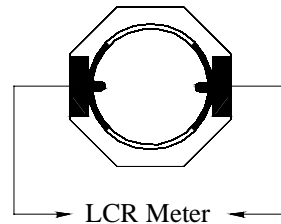
CONFIGURATION & DIMENSIONS :



- A : 10.0 ±0.3 m/m
- B : 10.0 ±0.3 m/m
- C : 3.8 ±0.3 m/m
- D : 3.4 typ. m/m
- E : 3.2 typ. m/m
- F : 7.4 typ. m/m
- G : 4.0 ref. m/m
- H : 7.2 ref. m/m
- I : 1.8 ref. m/m



(PCB Pattern suggestion)

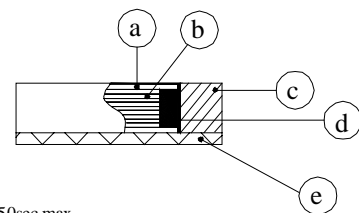


SCHEMATIC DIAGRAM :



MATERIALS :

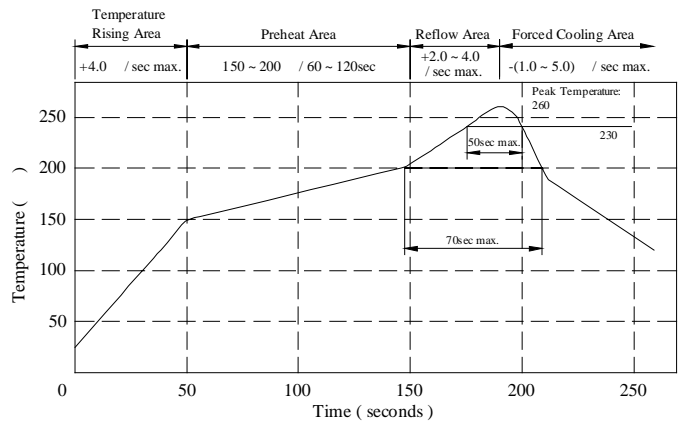
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class F)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/ Sn
- f . Remark : Products comply with RoHS' requirements



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

GENERAL SPECIFICATION :

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



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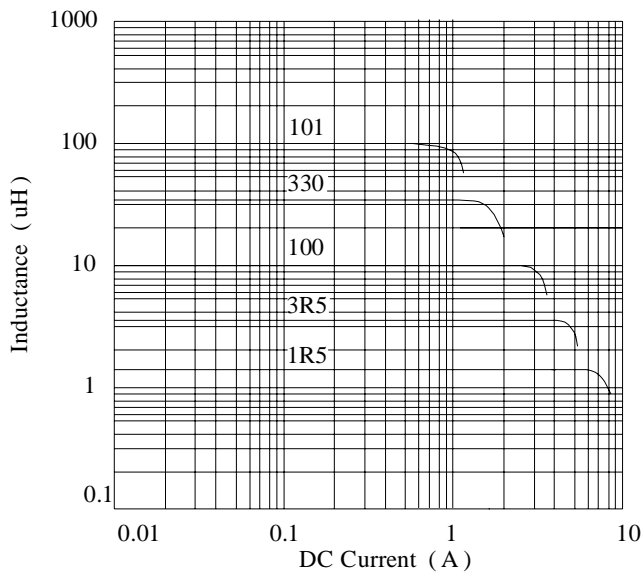
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU1038□□□□F□-□□□
		ABC'S ITEM NO.	

ELECTRICAL CHARACTERISTICS :

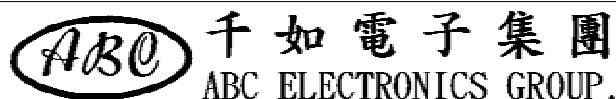
DWG No.	Inductance (μH)	Q ref.	SRF (MHz) typ.	RDC (mΩ)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
SU10381R5YF□-□□□	1.5 ± 30 %	14	65	5.2	7.5	7.20	7.00
SU10382R2YF□-□□□	2.2 ± 30 %	12	55	7.7	10.5	6.80	6.50
SU10383R5YF□-□□□	3.5 ± 30 %	14	35	11.5	15.0	5.50	5.50
SU10385R0YF□-□□□	5.0 ± 30 %	12	30	14.5	22.0	4.60	4.80
SU10386R2YF□-□□□	6.2 ± 30 %	12	25	16.5	24.0	4.00	4.20
SU1038100YF□-□□□	10.0 ± 30 %	24	20	25.0	35.0	3.80	3.60
SU1038150YF□-□□□	15.0 ± 30 %	24	16	37.0	50.0	2.80	2.70
SU1038220YF□-□□□	22.0 ± 30 %	20	12	55.8	75.0	2.20	2.30
SU1038330YF□-□□□	33.0 ± 30 %	22	10	86.0	112.0	1.80	1.80
SU1038470YF□-□□□	47.0 ± 30 %	22	8	121.0	160.0	1.65	1.60
SU1038680YF□-□□□	68.0 ± 30 %	24	7	166.0	216.0	1.10	1.30
SU1038101YF□-□□□	100.0 ± 30 %	24	6	220.0	300.0	1.30	1.10
SU1038151YF□-□□□	150.0 ± 30 %	20	5	358.0	476.0	0.90	0.80
SU1038221YF□-□□□	220.0 ± 30 %	22	4	565.0	740.0	0.65	0.65
SU1038331YF□-□□□	330.0 ± 30 %	20	3	773.0	1000.0	0.55	0.52

- 1) . □ : Packaging Information.. [A] : Bulk [B] : Taping Reel
- 2) ."- □□□":Reference code
- 3) . Inductance Test Freq. : 100KHz / 1V
- 4) . Q Test Freq. : 1R5~6R2--7.96MHz , 100~680--2.52MHz , 101~331--0.796MHz
- 5) . Isat base on L / LOA=35% typ.
- 6) . Irms base on Temp. rise 40 max.

@ Inductance VS. DC Superposition Characteristics



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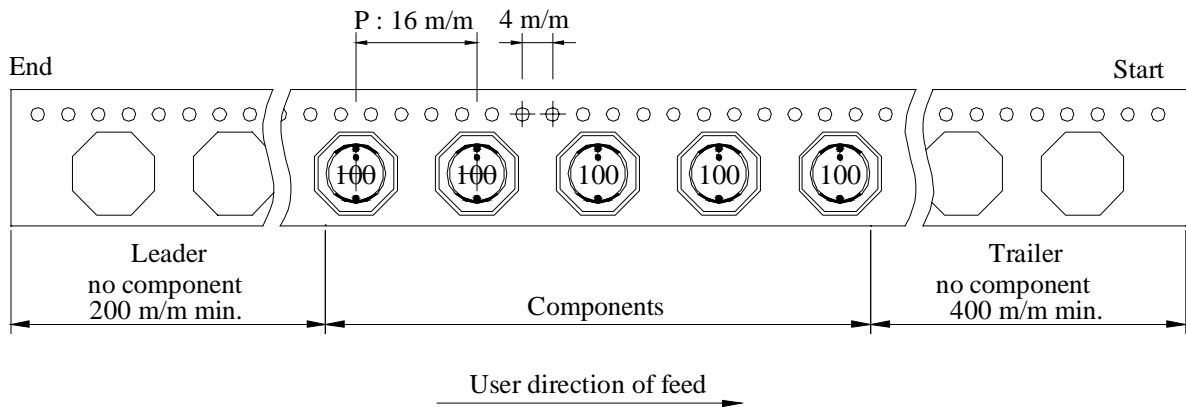
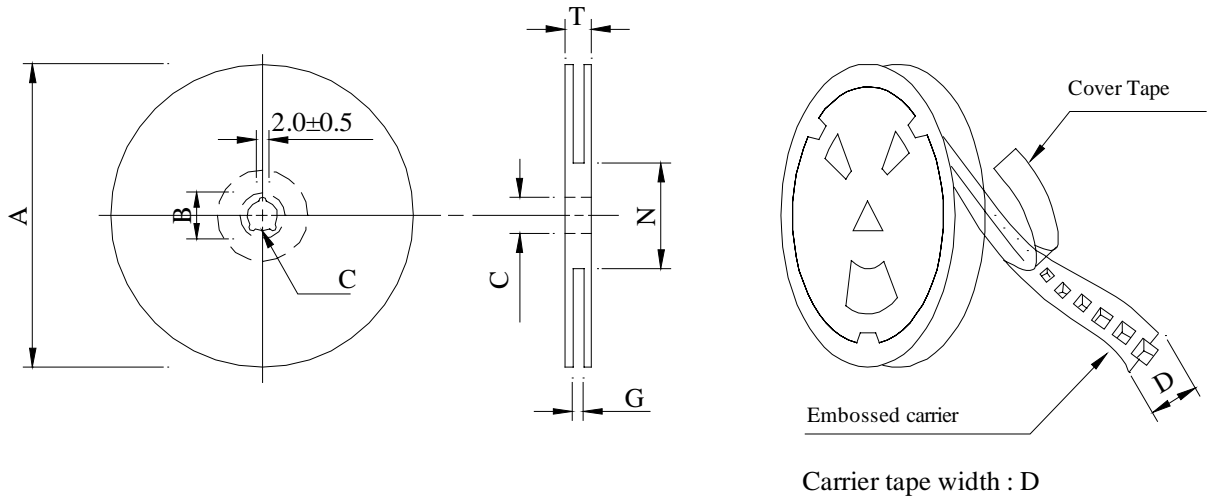
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PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	50 ⁻⁰	30.4

(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)
SU1038	800	1100	13 - 24	3200	5.0	40 x 40 x 24

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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;">-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							

