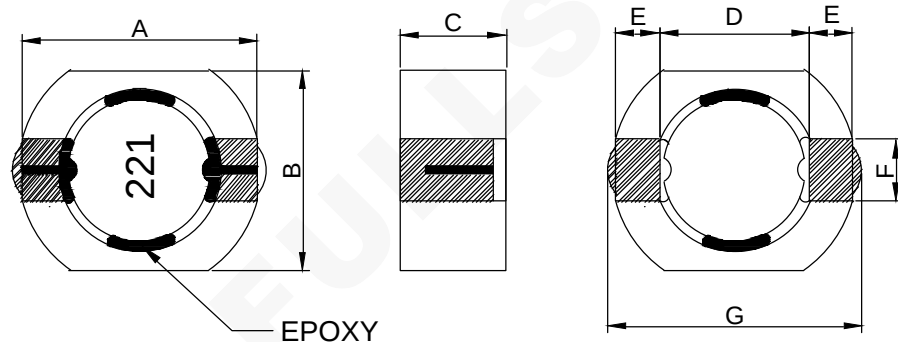
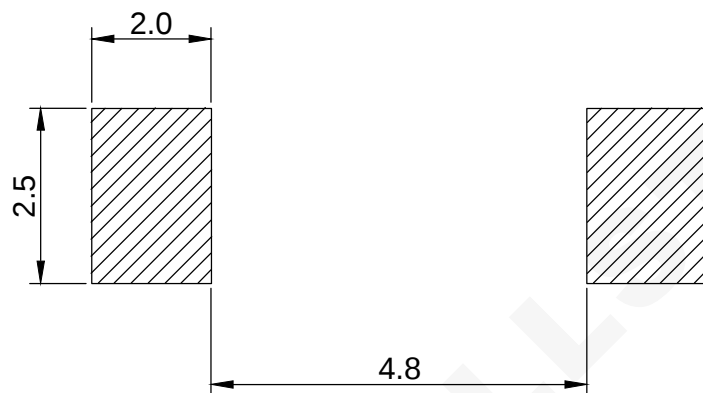


1. PHYSICAL CHARACTERISTICS(mm)



A=7.5±0.5 ; B=7.5±0.5 ; C=4.8Max; D=5.1Typ. ; E=1.3Typ. ;
F=2.5Typ. ; G=8.6Typ.

2. RECOMMENDED LAND PATTERN



3. ELECTRONICAL SPECIFICATIONS

Part No	Inductance (uH)	Test frequency (Hz)	SRF MHz TYP	DC resistance (mΩ) MAX	Saturation current Is at (A)Typ	Heat Rating current Irms (A)MAX
SSCP0745T-221M-CG	220±20%	100K/5mA	4.3	770	0.81	0.63

- Isat for inductance drop 10% from its value without current.
- Irms for a 40 °C rise above temperature 25 °C ambient

L/Q: TH2829A

Rdc:TH2512B

IDC : TH2829A+TH1773

Test temperature range: +25°C typ.

Operating temperature range: -40°C ~+125°C

Storage temperature range: TMP0~25°C , RH75%

4. MATERIAL LIST

NO	ITEM	DESCRIPTION	UL NO	MANUFACTURE
1	CORE	FERRITE		SINCORES ELECTRONICS CORP. ZHONGSHAN LB TECHNOLOGY CO.,LTD OR EQUIV.
2	WIRE	G1-P180	E258243	ELEKTRISOLA CO.,LTD PACIFIC ELECTRICAL CO.,LTD OR EQUIV.
3	SOLDER	Sn99.3%/Cu0.7%		SENGEN METAL INDUSTRY CO.,LTD. SHENMAO TECHNOLOGY INC. OR EQUIV.
4	EPOXY	EXPOY RESION	E253983	SUZHOU LIDUO CO.,LTD SHAW HUOW ENTERPRISE CO.,LTD OR EQUIV.
6	INK	WHITE/BLACK		YINGDE BAOLIJIE CHEMICAL INDUSTRY CO.,LTD. BON MARK ELECTRONICS CO.,LTD.OR EQUIV.

NOTES:

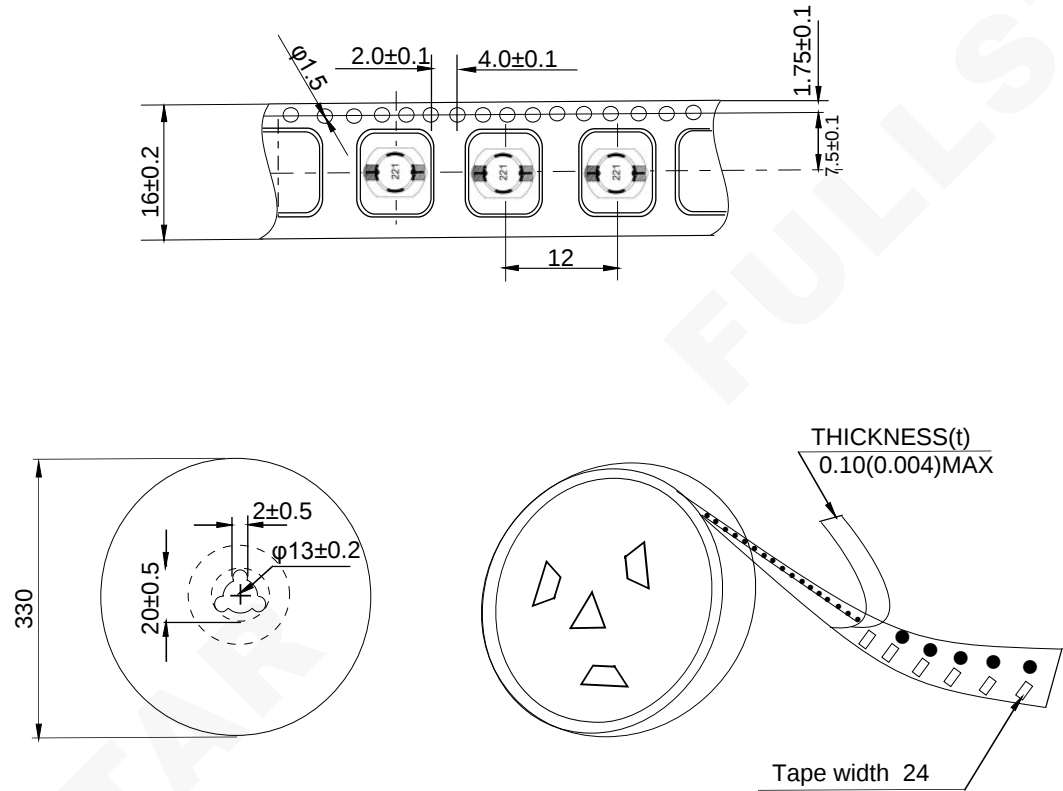
Temp 20℃ 48%RH

RoHS Compliant

NAME	Power inductor		
CUSTOMER P/N	7447773221	Date	2021-11-26
FULLSTAR P/N	SSCP0745T-221M-CG	Rev. A1	Page 1/4
Drawn. by :MingYue Ma	Checked. by :Zhi Xin Pu	Approve. by :Jie Sun	

Drawing changes	Rev.	
	Rev.	

1. TAPE SIZE(unit:mm)



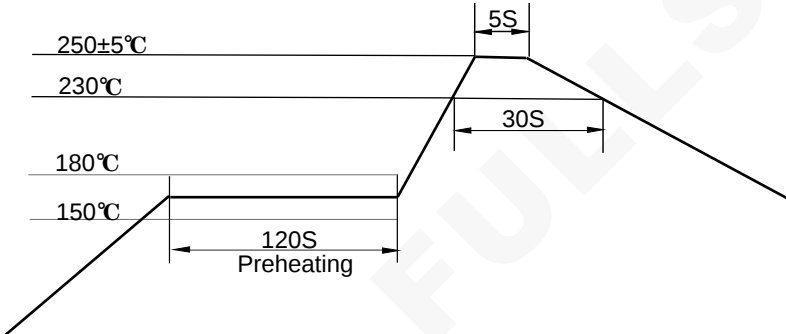
- The packing method
1000 PCS/REEL

NOTES:
Temp 20℃ 48%RH
RoHS Compliant

NAME	Power inductor		
CUSTOMER P/N	7447773221	Date	2021-11-26
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Drawing changes	Rev.	
	Rev.	

RELIABILITY TEST

*Electrical performance test		
Item	Specification	Test method
Temperature Coefficient	$\Delta L/L0\ 25^{\circ}\text{C} \leq \pm 10\%$	After the test should be completed, the sample has stabilized at an ambient temperature of -40 to $+125^{\circ}\text{C}$, at this time the ratio of the product's L (ΔL) value to the original L value, suitable for a normal temperature and humidity should be normal It is $\Delta L / L\ 25^{\circ}\text{C} \leq \pm 10\%$.
Overload test	During the test no smoke,no peculiar,smell, no fire.	Apply 1.2 times as rated current for 5 minutes.
*Environmental characteristics		
Reflow soldering	No damage or problem	Temperature distribution reflow Pre-heat: $150-180^{\circ}\text{C}$, 120 sec Peak temperature: $250\pm 5^{\circ}\text{C}$, 5sec Maintain temperature: $230 \pm 5^{\circ}\text{C}$, 30 ± 5 sec 

NOTES:
Temp 20℃ 48%RH
RoHS Compliant

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*Environmental characteristics		
Item	Specification	Test method
Solder ability	The electrodes shall be at least 90% covered with new solder coating	The soldering surface is immersed in the flux and then immersed in a 245±5°C tin furnace for 3 seconds.
Low Temperature Resistance	$\Delta L / L_0 \leq \pm 10\%$, there should be no mechanical damage	The sample should be left at 1000 ± 4 hours at a temperature of -40± 3 ° C and returned to completion within 1 hour of the normal temperature range.
High temperature Resistance	$\Delta L / L_0 \leq \pm 10\%$, there should be no mechanical damage	The sample should be left for 1000 ± 4 hours at a temperature of 125 ± 3 ° C. Tested after returning to the normal temperature range for 1 hour.
Humidity Resistance	$\Delta L / L_0 \leq \pm 10\%$, there should be no mechanical damage	The sample should be left at 1000 ± 4 hours, at a temperature of 40 ± 2 ° C: and at a humidity (RH) of 90-95%. The test was resumed after 1 hour in the normal temperature range.
Temperature cycle	1. No visible mechanical damage. 2. The change in sense value is less than 10%. 3. The resistance value changes less than 5%	Maintain between -40°C and +125 °C for 15 min, transfer time ≤ 1 min, cycle times 5 times, recovery time: test within 24 h (recovery time at least 4 h)
Vibration	$\Delta L / L_0 \leq \pm 10\%$, there should be no mechanical damage	Samples should be soldered to printed circuit boards When the vibration has amplitude and 1.5 mm The frequency is from 10-55Hz / 1 minute, and the repetition should be applied to 3 directions (X, Y, Z) for 2 hours each for 6 hours.

NOTES:

Temp 20℃ 48%RH

RoHS Compliant

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Drawn. by :MingYue Ma	Checked. by :Zhi Xin Pu	Approve. by :Jie Sun	

Drawing changes	Rev.	
	Rev.	