

CUSTOMER \_\_\_\_\_  
CUSTOMER' S P/N \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_ inductor \_\_\_\_\_  
SGTE PART NO. \_\_\_\_\_ SP75-3R3M \_\_\_\_\_  
SAMPLE NO. S22091521 REVISION NO. A1 DATE 2022/9/15

## SPECIFICATION FOR APPROVAL

FULLY APPROVED	REVISE APPROVED

**SGTE 感通科技**

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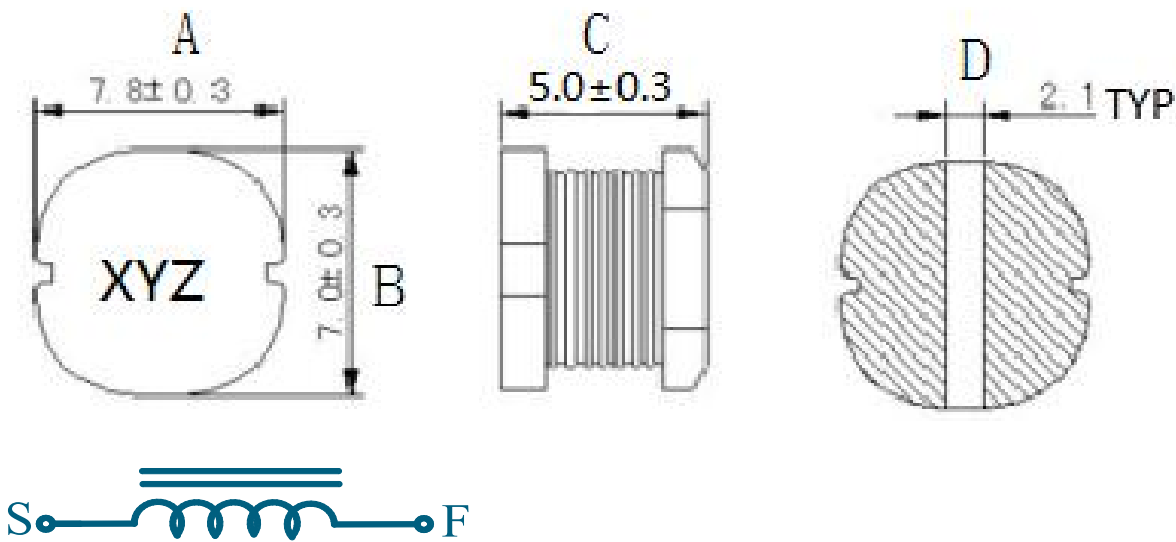


# SPECIFICATION

**RoHS  
COMPLIANT**

Customers Part Number	Item Name	Date	
	inductor	2022/9/15	
Gan Tong Part NO.	Sample NO.	Revision No.	A1
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## MECHANICAL & DIMENSIONS



2UEWH-0.43\*9.5TS (REF)

## ELECTRICAL REQUIREMENTS:

PARAMETER	SPECIFICATION	CONDITION	TEST INSTRUMENTS
L	3.3 UH ( $\pm 20\%$ )	100KHz/0.25V (内阻50Ω)	VR116
DCR	35 mΩ (Max)	@ 25°C	CH502BC
IDC	7 A (Max)	$\geq 90\%L$	VR116

- All test Data is referenced to 25°C ambient.
- IRMS:Average current for 40°C temperaturerise from 20°C.
- Storage temp range:-25°C~+85°C
- Operating Temperature Range: -25°C~+85°C



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**Electrical Characteristic :**

PARAMETER	L	DCR			
UNIT	UH (±20%)	mΩ (Max)			
SPECIFICATION	3.3	35			
CONDITION	100KHz/0.25V(内阻50Ω)	@ 25℃			
1	3.39	25			
2	3.38	26			
3	3.4	27			
4	3.44	27			
5	3.46	26			
MEAN	3.41	26.20			
R	0.08	2.00			

**External Dimensions:(mm)**

NO	A	B	C				
	7.8±0.3	7.0±0.3	5.0±0.3				
1	7.61	6.98	5.03				
2	7.66	6.97	5.07				
3	7.63	6.96	5.06				
4	7.62	6.93	5.08				
5	7.64	6.94	5.03				
6							
7							
8							
9							
10							
MEAN	7.63	6.96	5.05				
R	0.05	0.05	0.05				

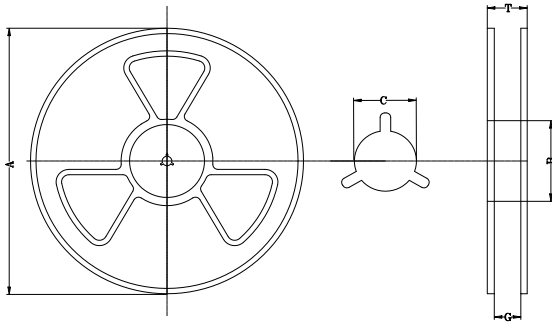
Electrical specifications at 25±5°C. Humidity 60±10%

# SPECIFICATION

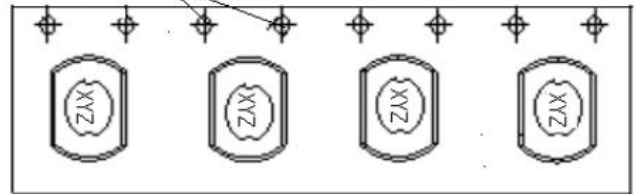
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## PACKAGING

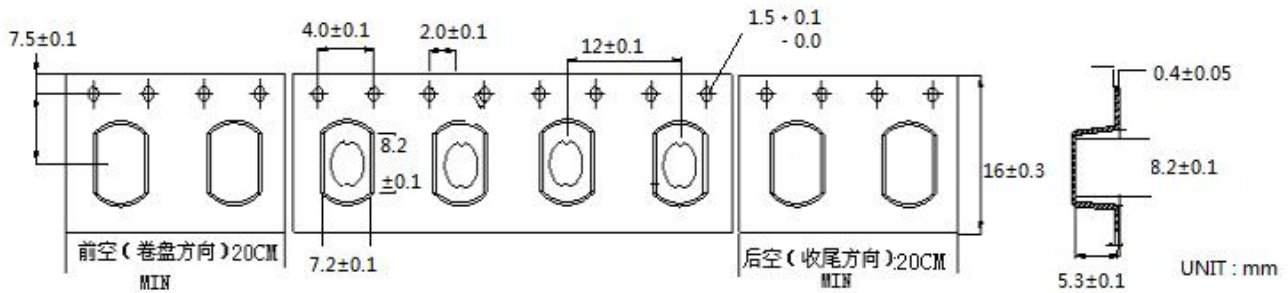


印字方向；‘首字’对孔(图示)  
载带孔

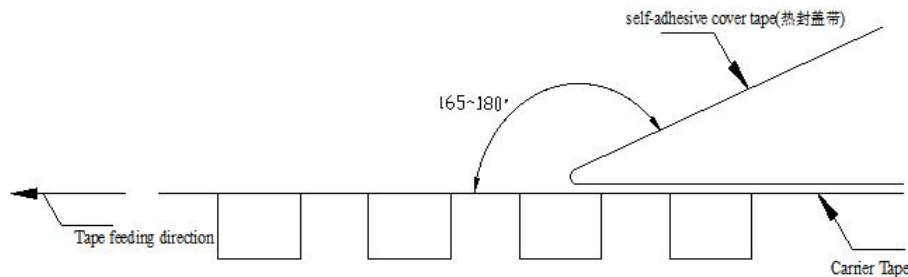


A	B	C	G	T
Φ330	Φ100	Φ13.2	Φ16.5	Φ21.1

卷轮尺寸一般公差±0.5mm



剥离盖带的力度：10~130g.f



每卷 卷轮尺寸(13inch)	3卷/盒	4盒/箱
1000 (PCS)	3000 (PCS)	12000 (PCS)

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## SOLDERING CONDITIONS

Figure 1. Re-flow Soldering

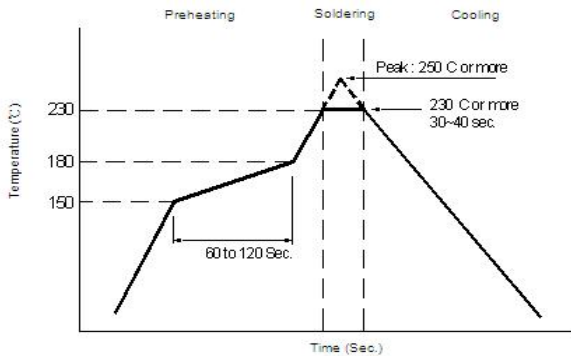
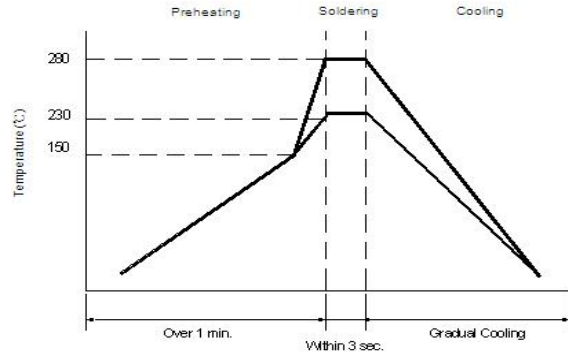


Figure 2. Hand Soldering



## /Surface Mount Type Power Inductors

Item	Specification	Conditions															
Solderability	More than 90% of the terminal electrode should be covered with solder.																
Solder Heat Resistance	Inductance within $\pm 20\%$ of initial value and appearance shall not break.																
Heat resistance	Inductance within $\pm 20\%$ of initial value. No disconnection or short circuit. Appearance shall not break.	After 500 $\pm$ 12 hours in 145 $\pm$ 5 $^{\circ}$ C and 2 hour drying under normal condition.															
Cold resistance	Inductance within $\pm 20\%$ of initial value. No disconnection or short circuit. Appearance shall not break.	After 500 $\pm$ 12 hours in -40 $\pm$ 2 $^{\circ}$ C and 2 hour drying under normal condition.															
Thermal shock	Inductance within $\pm 20\%$ of initial value. No disconnection or short circuit. Appearance shall not break.	After 10 cycles of following condition. <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temperature (<math>^{\circ}</math>C)</th> <th>Times (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40<math>\pm</math>2</td> <td>30</td> </tr> <tr> <td>2</td> <td>Room Temperature</td> <td>Within 3</td> </tr> <tr> <td>3</td> <td>145<math>\pm</math>5</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room Temperature</td> <td>Within 3</td> </tr> </tbody> </table>	Step	Temperature ( $^{\circ}$ C)	Times (min.)	1	-40 $\pm$ 2	30	2	Room Temperature	Within 3	3	145 $\pm$ 5	30	4	Room Temperature	Within 3
Step	Temperature ( $^{\circ}$ C)	Times (min.)															
1	-40 $\pm$ 2	30															
2	Room Temperature	Within 3															
3	145 $\pm$ 5	30															
4	Room Temperature	Within 3															
Humidity Resistance	Inductance within $\pm 20\%$ of initial value. No disconnection or short circuit. Appearance shall not break.	After 500 $\pm$ 12 hours in 40 $\pm$ 2 $^{\circ}$ C and 90 to 95% humidity , and 2 hour drying under normal condition.															
* Vibration Test	Inductance within $\pm 20\%$ of initial value and appearance shall not break.	After vibration for 1hour, In each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.															