

SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G 钢片天线贴片 Product specification

Customers		Frequency	2400MHz——2500MHz
Name of wire rod		Version	A1
Customer data		GuandetongNo	
GuandetongNo			
R FDesign	肖彬	RF manager	刘亮
Structural design	王栋	Structure manager	王华
Technical Director	ANDY	Date	2023-11-07

Customer confirmation:

Whether the Assembly meets your requirements: ☐OK ☐NG

catalogue

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保 密 要 求

本公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳冠得通电子有限公司事先书面同意的时不允许透露给任何人或公司。

一、Product pictures



二、Product parameters

Product test parameters			
(Name)	2.4 G antenna	(Model Type)	
(Electrical Specifications)			
(Frequency Range)	2400-2500MHZ	(Polarization)	perpendicular
(Impedance)	50 欧	Radiation	QXCOMM
(VSWR)	≤ 2.0	(Power)	50W
(Gain)	2.5dBi	(Bandwidth)	100M
(Mechanical Specifications)			
(Copper tube dimensions)	9.30*3.30*4.95±0.2mm	(Chassis Color)	Silver
(Connector)	Welding (patch)	(Chassis Material)	Stainless steel
(Working Temperature)	-40℃~+85℃	(Limit Temperature)	-40℃~+85℃

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三、S11 (VSWR/Return/Smith)



四、Structural drawings

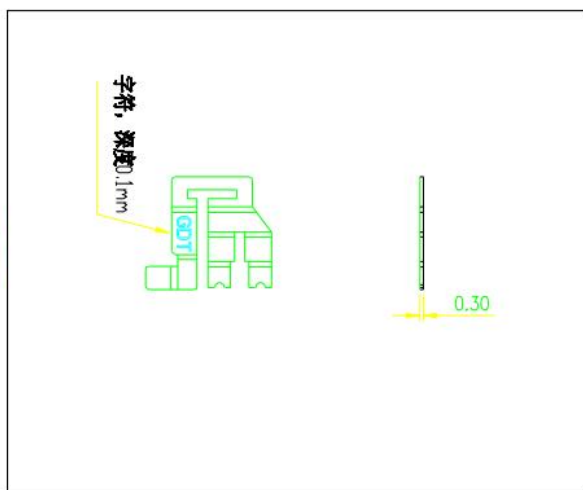
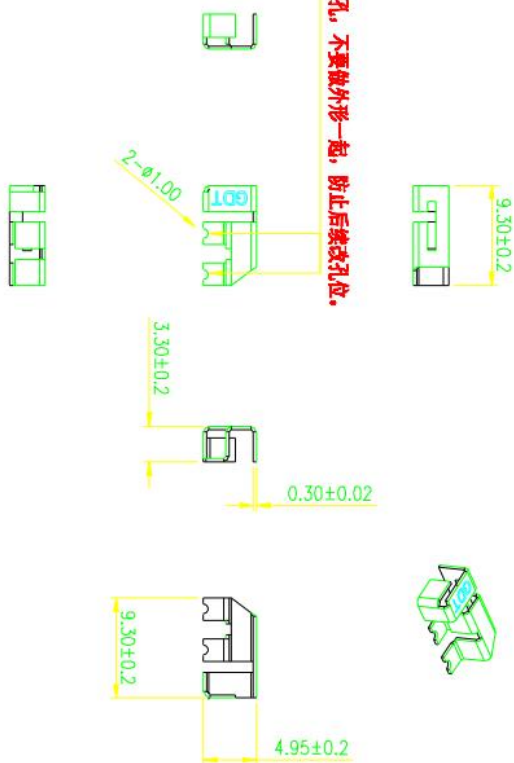
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<http://www.szgdtrf.com>

保 密 要 求

*材料表面要镀锌，后续要焊接，冲压之后不能掉镀。
*编带出货，SMT贴片产品，注意平整度。

缺口用针冲孔，不要做外形一起，防止后续改孔位。



展开图

- 1、打十号另加控制尺寸（必须标注）。
- 2、打号为重要尺寸（制作必须控制，能测量出准确数据），其它尺寸为设计参考尺寸等。
- 3、不可有交叉、漏绘、毛线、错后、刮伤等情况。
- 4、材料用GB 3084 304 304L 7-0.3mm。
- 5、表标注尺寸按加配子图倍公差来执行。
- 6、未标注公差按加配子图倍公差来执行。
- 7、截掉孔位置公差为+/-0.05不处理。
- 8、薄片要圆角，其种内径表面，要求字体清晰可见。

[illegible]

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五、Environmental performance test

project	Project test conditions	Specifications
Storage environment	The test temperature, humidity and air pressure are as follows when there is no specific condition: 1. The temperature is $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 2. Relative humidity: 45% - 85% 3. The air pressure is 86kpa-106kpa	Normal electrical and mechanical performance
High and low temperature test	5 cycles between 70°C and 40°C , then under normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	Relative humidity: $95 \pm 3\%$, test temperature: 40°C. After lasting for 2h, The electrical performance shall be measured within 5 minutes after the test object is taken out, and the test object shall be within the normal range Part 1-2H, check the appearance quality	The size shall meet the requirements and Mechanical and electrical performance
vibration test	Vibration frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/s, frequency sweep cycles: 30 times	Normal electrical and mechanical performance
Drop test	Free fall for 3 times in the direction of mutually perpendicular axes at a height of 1M	Normal electrical and mechanical performance