

RoHS  
Compliant



## Applications

- Bluetooth
- Wireless LAN
- HornRF
- ISM band 2.4GHz wireless applications

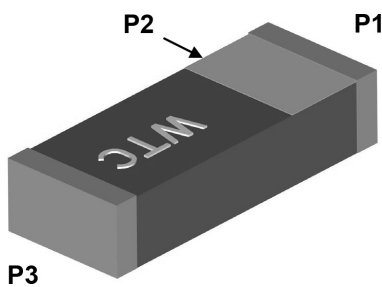
## Features

- Surface Mounted Devices with a small dimension of 5.2 × 2.0 × 1.1 mm<sup>3</sup> meet future miniaturization trend.
- Embedded and LTCC (Low Temperature Co-fired Ceramic) technology is able to future integrate with system design as well as beautifying the housing of final product.
- High Stability in Temperature / Humidity Change
- Automotive, Qualified to AECQ-200

## Specifications

Working Frequency Range	: 2.4 GHz to 2.5GHz
Gain	: 2 dB (Typical)
VSWR	: 2 max.
Polarization	: Linear
Azimuth Bandwidth	: Omni-directional
Impedance	: 50Ω
Rated Power (max.)	: 3 Watts
Maximum Input Power	: 5 Watts for 5 minutes
Operation Temperature	: -40°C ~ +85°C

## Construction



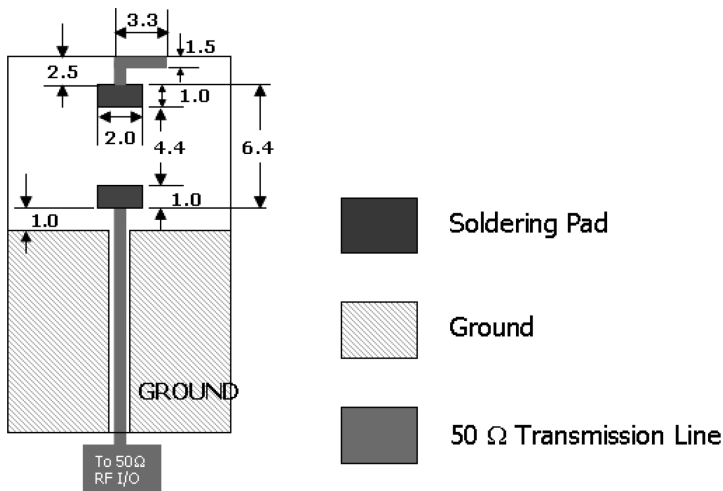
PIN	Connection
1	Feeding
2	Identification Mark
3	Soldering terminal

Dimensions : Millimetres

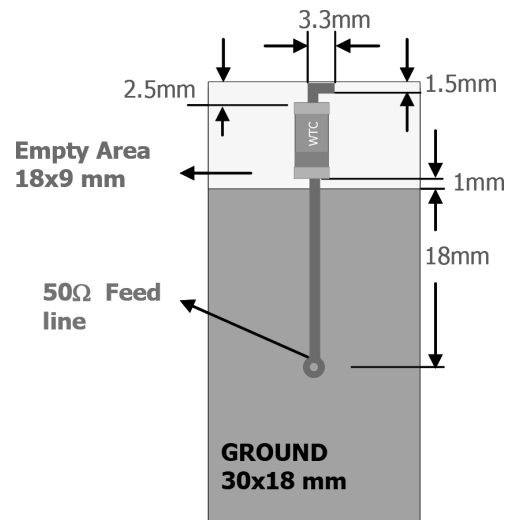
## Dimensions

Figure	Symbol	Dimension (mm)
<p>W=2.0±0.2mm T=1.15±0.1mm L=5.2±0.2mm A=0.4±0.25mm</p>	L	5.20 ± 0.20
	W	2.00 ± 0.20
	T	1.15 ± 0.10
	A	0.40 ± 0.25

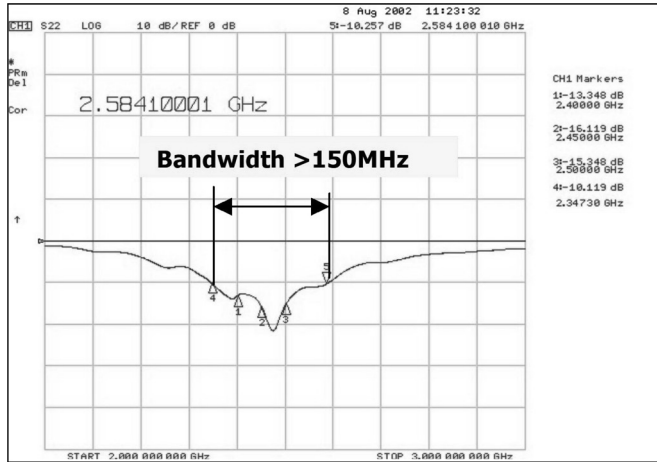
## Solder Land Pattern Design



## Antenna on Test Board (FR4 Thickness 0.8mm)

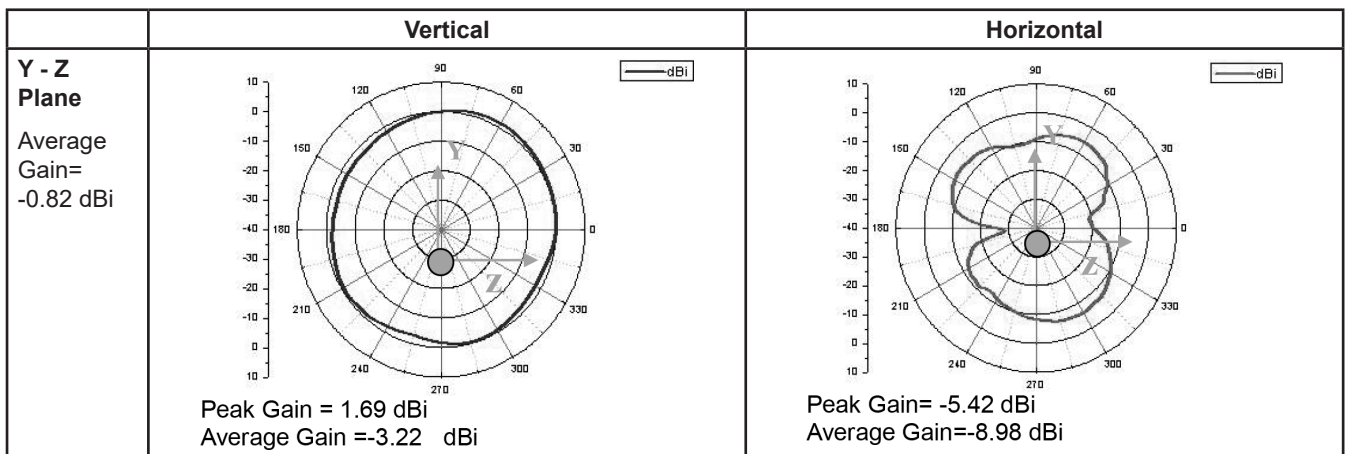
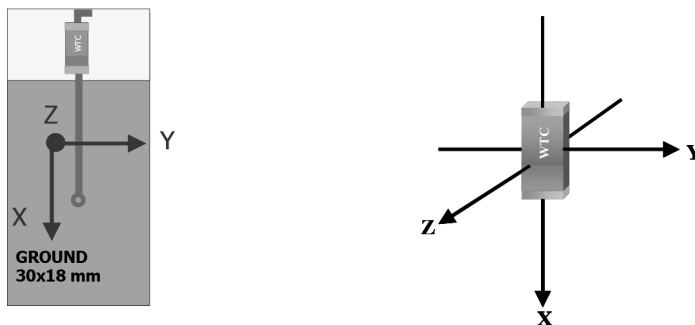


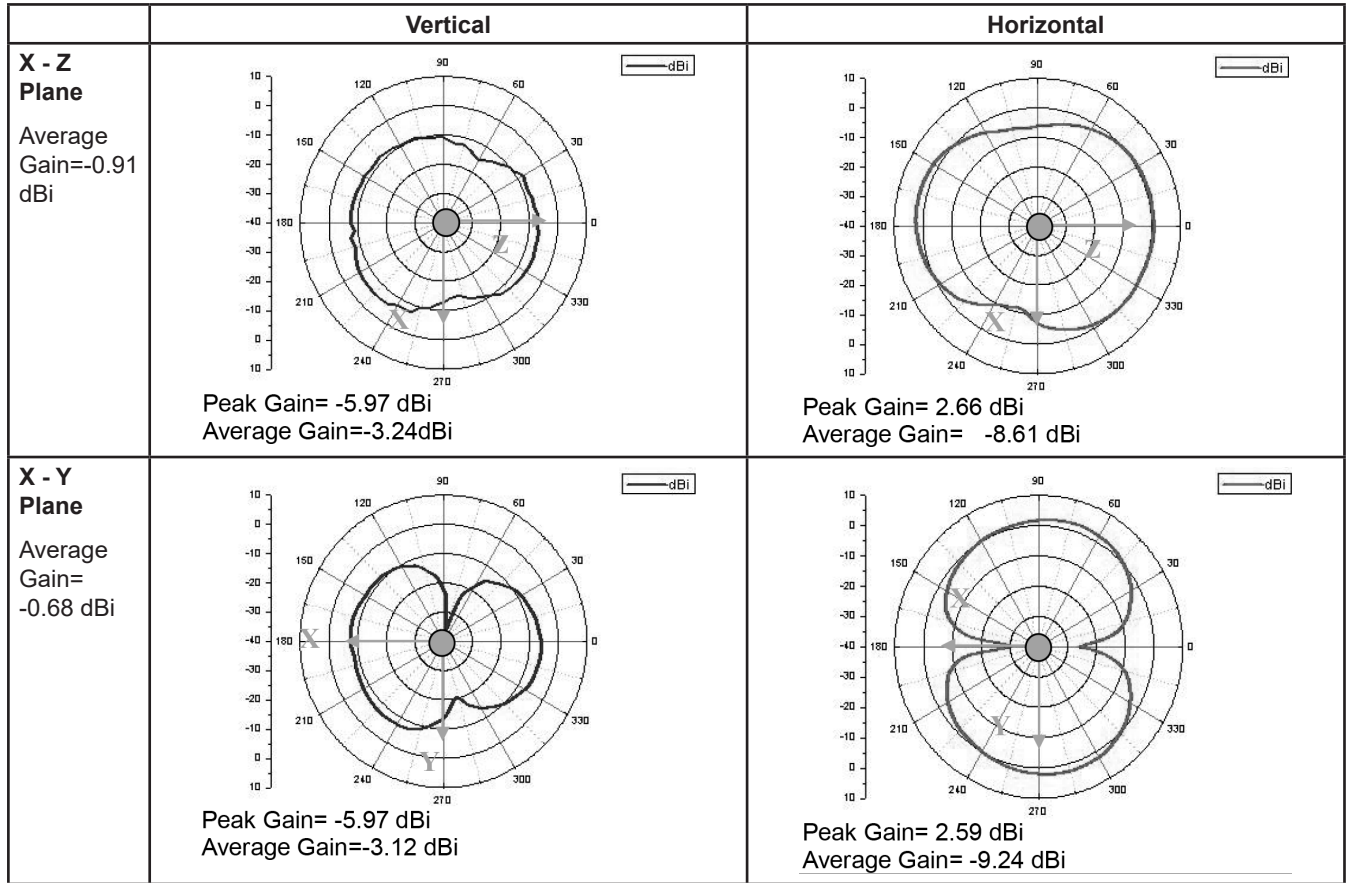
## Antenna S11 on Test Board



## Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. This was measured based on the PCB size and installation position as shown in the below figure Test Board





### Part Number Table

Description	Part Number
Ceramic Chip Antenna, Multi Layer, 2.45GHz, 2 VSWR, Linear, 3W, Surface Mount	AMANT5220110A0T

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