

Multi Layer Ceramic Chip Antenna 2012 (0805) Size

multicomp PRO



Features

- Surface Mounted Devices with a small dimension of 2mm×1.25mm×0.9mm 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
- Omni - directional in azimuth antenna
- Automotive, Qualified to AECQ-200
- Reel Packaging

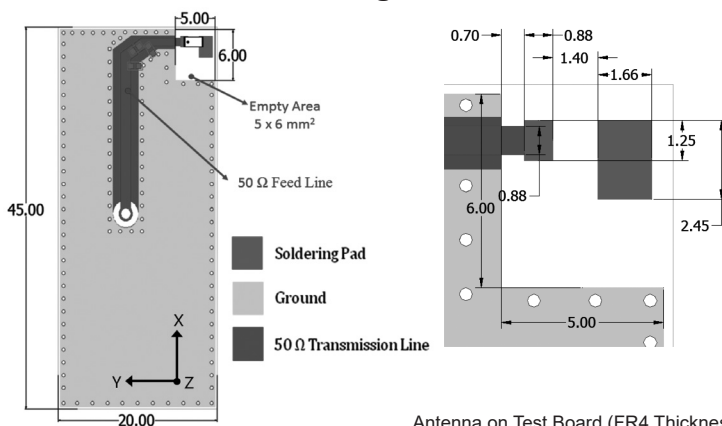
Applications

- 2400 ~ 2500 MHz working frequency
- Bluetooth
- Wireless LAN
- HornRF

Electrical Characteristics

Working Frequency Range	: 2400MHz ~ 2500MHz
Gain	: 1.32 dBi (Typical)
VSWR	: 2 max.
Polarization	: Linear
Azimuth Beam width	: Omni-directional
Impedance	: 50Ω
Rated Power (max.)	: 3 Watts
Max. Input Power	: 5 Watts for 5 minutes
Moisture Sensitivity Levels	: MSL is LEVEL 1 (Refer to : IPC/JEDEC J-STD-020)
HBM ESD	: Pass 1KV on all pins (Base on AEC-Q200-002)
MM ESD	: Pass 200V (Base on EIA/JESD22-A115)
Operation Temperature Range	: -55°C to +125°C
Storage Temperature Range	: -55°C to +125°C
Storage Temperature Range	: +5°C to +40°C
Humidity	: 30 to 70% relative humidity

Solder Land Pattern Design



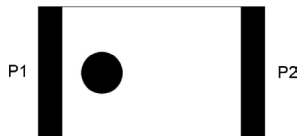
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Construction

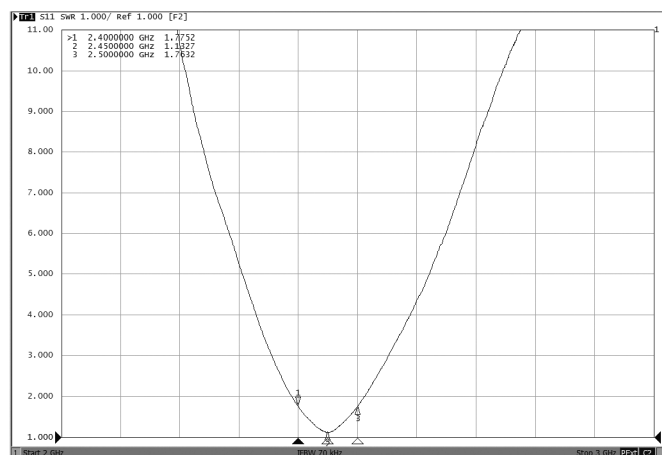


PIN	Connection
P1	Feeding
P2	Soldering terminal

Dimensions

	Symbol	Dimension (mm)
 Top view	L	2 ±0.2
 Side view	W	1.25 ±0.2
 Bottom view	T	0.9 ±0.1
	A	0.25 ±0.15

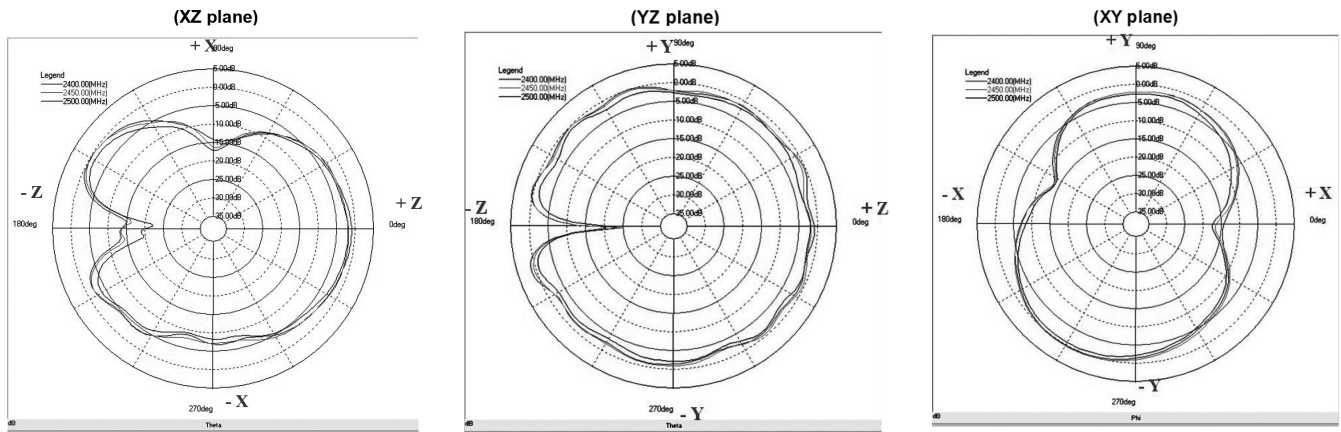
Antenna VSWR on Test Board



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Radiation Pattern



Part Number Table

Description	Part Number
Ceramic Chip Antenna, 2.45GHz, 1.32dBi	AMANT2012090A0T

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