

LTCC Multi Layer Ceramic chip antenna- 2012 (0805) size

AMANT2012090A0T

FEATURES

- 1. Surface Mounted Devices with a small dimension of 2.0 x 1.25 x 0.9 mm³ meet future miniaturization trend.
- 2. 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.
- 3. High Stability in Temperature / Humidity Change
- 4. Omni directional in azimuth
- 5. Automotive, Qualified to AECQ-200
- 6. Reel Packaging

APPLICATIONS

- 1. 2400 ~ 2500 MHz working frequency
- 2. Bluetooth
- 3. Wireless LAN
- 4. HormRF



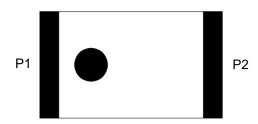
Recommanded Link Parts

Product Category	Walsin PN	description	Remark
capacitor	RTxxN	high Q MLCC (automotive version)	matching circuit
chip antenna	AMANT3216120A5T	3.2 X 1.6mm, automotive version	other choice
chip antenna	AMANT5220110A0T	5.2 x 2.0mm, automotive version	other choice



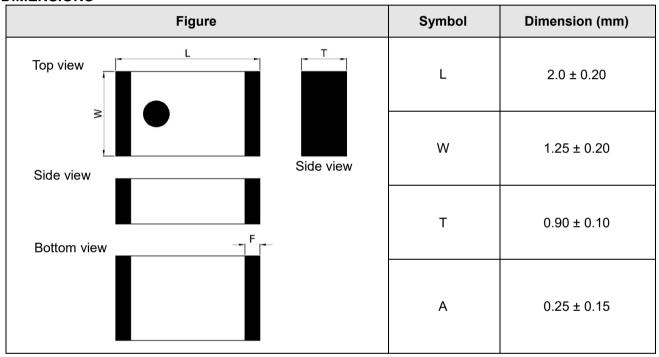
CONSTRUCTION

Top view



PIN	Connection	
P1	Feeding	
P2	Soldering terminal	

DIMENSIONS



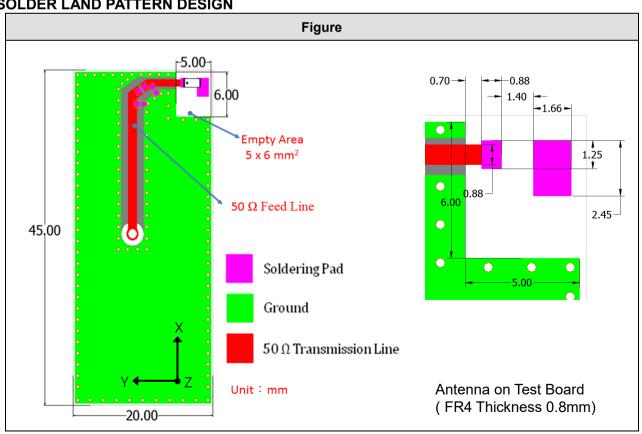


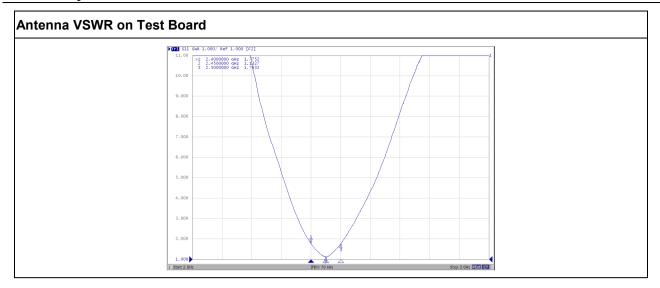
ELECTRICAL CHARACTERISTICS

AMANT2012090A0T	Specification			
Working Frequency Range	2400 ~ 2500 MHz			
Gain	1.32 dBi (Typical)			
VSWR	2.0 max.			
Polarization	Linear			
Azimuth Beamwidth	Omni-directional			
Impedance	50Ω			
Rated Power (max.)	3 Watts			
Maximum 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)			
Operating & Storage Condition (Component) Operation Temperature Range: -55°C ~ +125°C				
Storage Temperature Range: -55°C ~ +125°C				
Storage Condition before Soldering (Included packaging material) Storage Temperature Range: $+5 \sim +40 ^{\circ}$ C Humidity: 30 to 70% relative humidity				

Remark: The specification is defined based on the test board dimension as in below

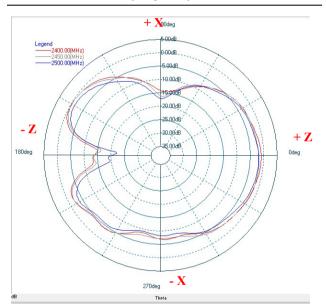
SOLDER LAND PATTERN DESIGN



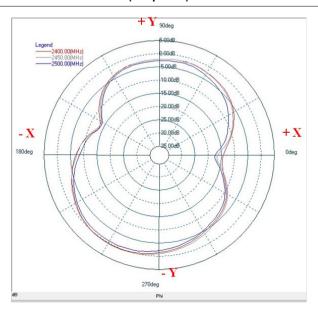


RADIATION PATTERN

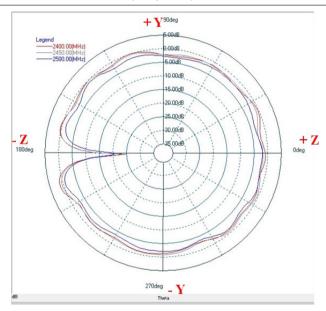
(XZ plane)



(XY plane)



(YZ plane)



CONTACT INFORMATION

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