

## LTCC Multi Layer Ceramic Chip Antenna- 3216 (1206) size

- AMANT3216110Y1T

#### **FEATURES**

- 1. Surface Mounted Devices with a small dimension of 3.2 X 1.6 X1.1 mm<sup>3</sup> meet future miniaturization trend.
- 2. LTCC process
- 3. High stability in Temperature / Humidity Change
- 4. Multilayer ceramic antenna (chip antenna)
- 5. Automotive, Qualified to AEC-Q200

#### **APPLICATIONS**

1. 6240 – 8500 MHz working Frequency

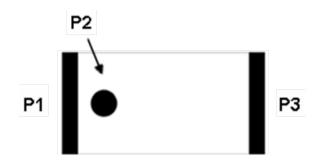


#### **Recommanded Link Parts**

Product Category	Walsin PN	Remark
capacitor	RTxxN	high Q MLCC for fine tune matching (automotive version)



### CONSTRUCTION



PIN	Connection	
1	Feeding	
2	Identification Mark	
3	Soldering terminal	

# **DIMENSIONS**

Figure	Symbol	Dimension (mm)
<b>V</b>   ■ T	L	3.20 ± 0.20
	W	1.60 ± 0.10
	Т	1.10 ± 0.10
	А	0.25 ± 0.15



#### **ELECTRICAL CHARACTERISTICS**

AMANT3216110Y1T	Specification	
Working Frequency Range	6240 - 8500 MHz	
Fc	7370 MHz	
VSWR	2 max.	
Gain	3 – 4.5 dBi	
Efficiency	70 – 80 %	
Power Capacity	3 W max.	
Maximum Input Power	5 Watts for 5 minutes	
Polarization	Linear	
Azimuth Beamwidth	Omni - Directional	
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)	

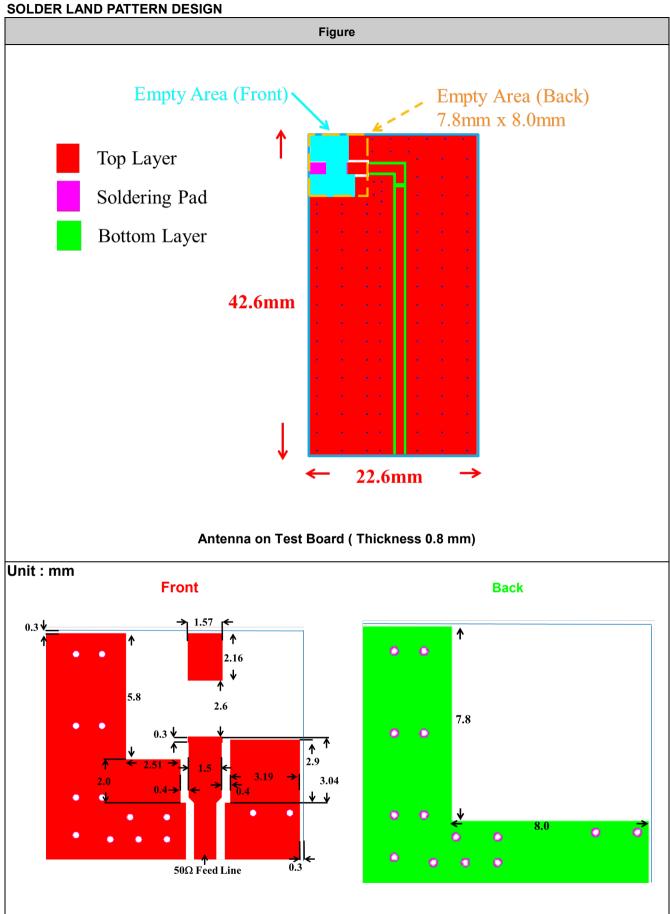
# Operating & Storage Condition (Component)

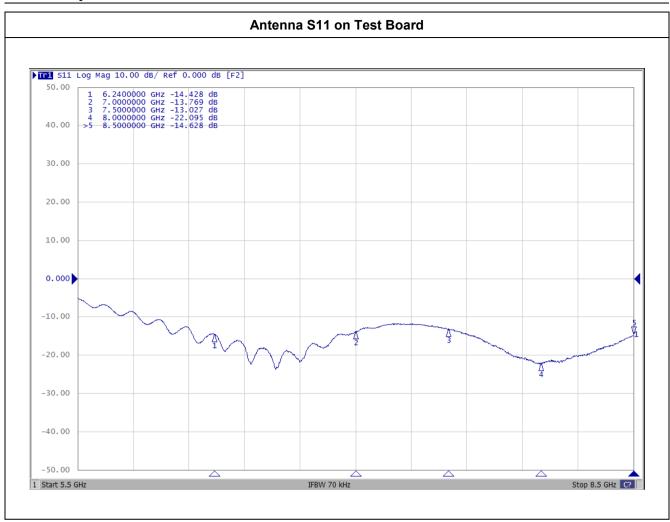
Operation Temperature Range: -55 ~ +125 °℃ Storage Temperature Range: -55  $\sim$  +125  $^{\circ}$ C

# Storage Condition before Soldering (Included packaging material) Storage Temperature Range: +5 $\sim$ +40 $^{\circ}$ C

Humidity: 30 to 70% relative humidity









#### **RADIATION PATTERNS**

Radiation Pattern and Gain were dependent on measurement board design. The specification of AMANT3216110Y1Tantenna was measured based on the PCB size and installation position as shown in the below figure Test Board.

