

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

- RFANT3216110Y1T

FEATURES

1. Surface Mounted Devices with a small dimension of 3.2 X 1.6 X1.1 mm³ meet future miniaturization trend.
2. LTCC process
3. High stability in Temperature / Humidity Change
4. Multilayer ceramic antenna (chip antenna)
5. Reel Packaging



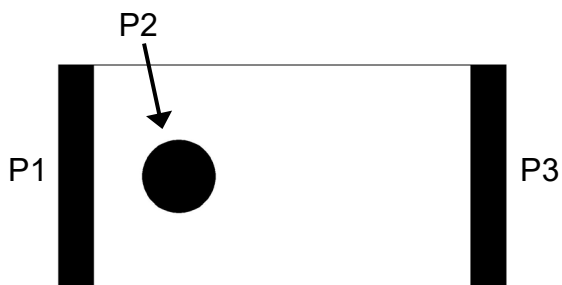
APPLICATIONS

1. 6240 ~ 8500 MHz working Frequency

Recommended Link Parts

Product Category	Walsin PN	description	Remark
capacitor	RFxxN	high Q MLCC	matching circuit
chip antenna	AMANT3216110Y1T	automotive version, 3.2 X 1.6 mm	other choice
chip antenna	RFANT8060101YAT	3000 ~ 10000 MHz, 8.0 X 6.0mm	other choice

CONSTRUCTION



PIN	Connection
1	Feeding
2	Identification Mark
3	Soldering terminal

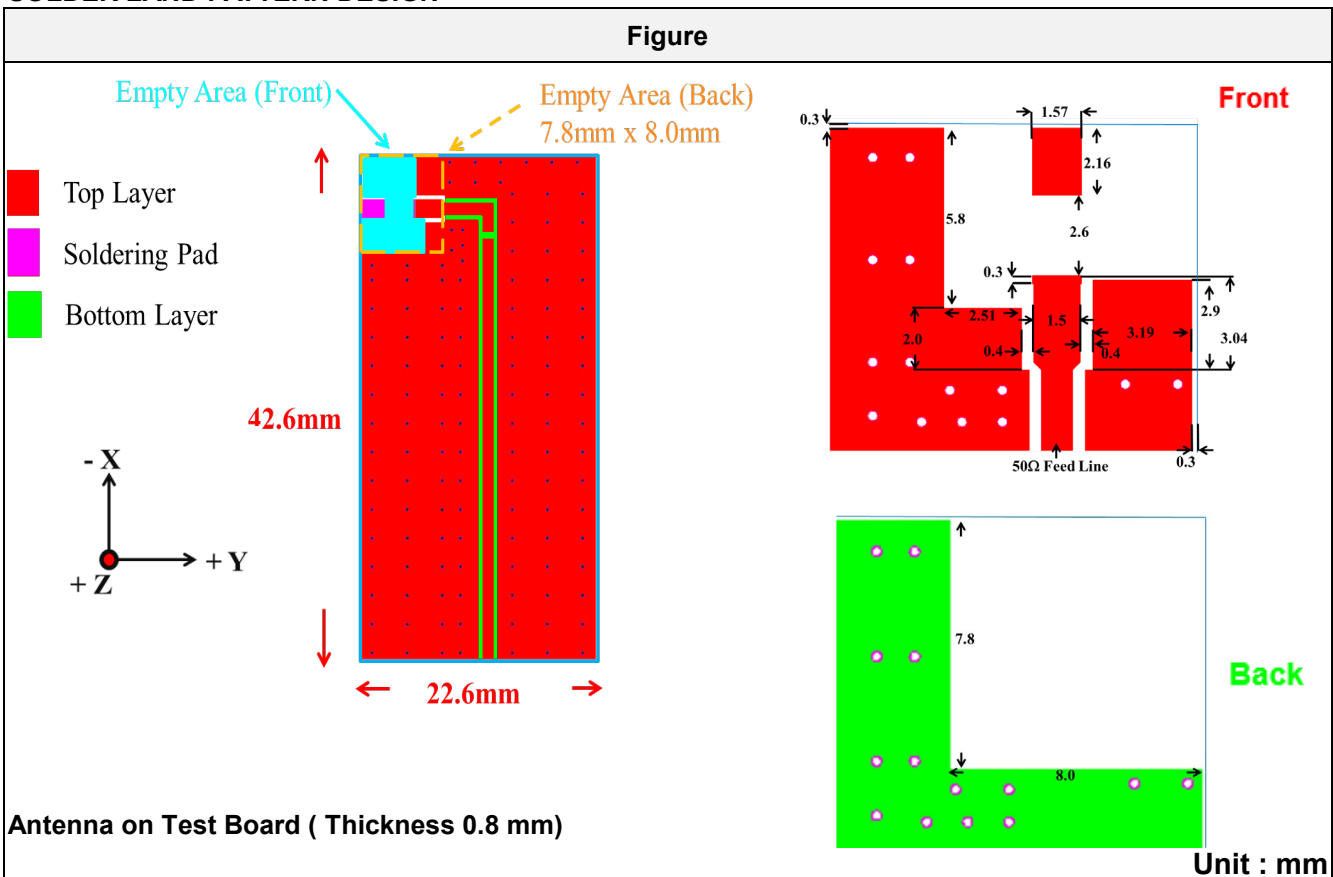
DIMENSIONS

Figure	Symbol	Dimension (mm)
Top view:	L	3.20 ± 0.20
Side view:	W	1.60 ± 0.10
Side view:	T	1.10 ± 0.10
Bottom view:	A	0.25 ± 0.15

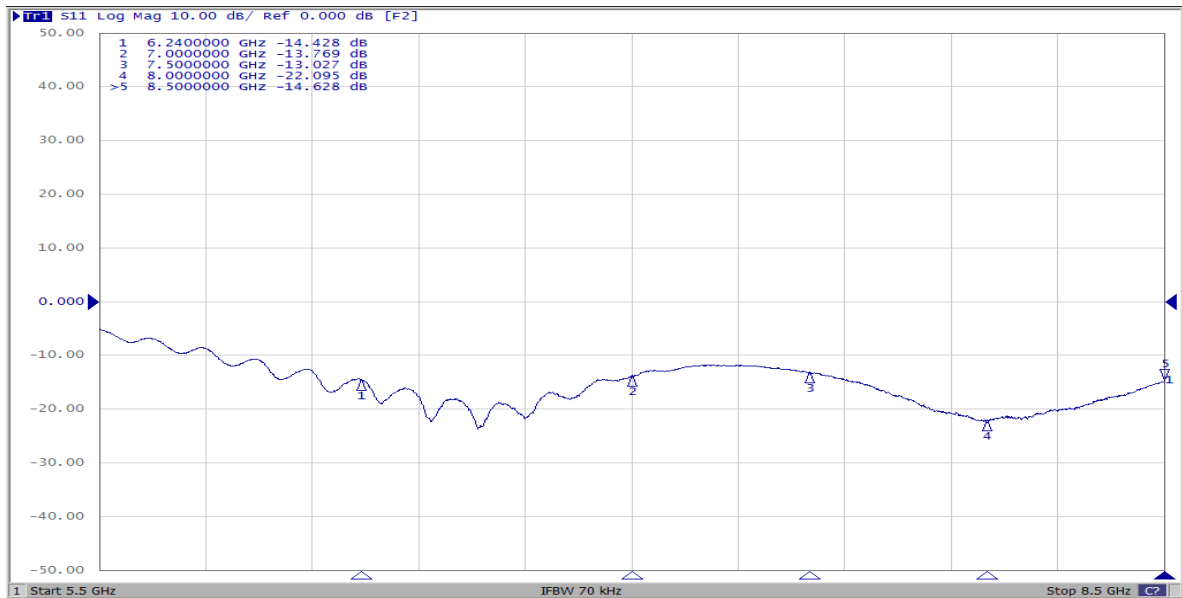
ELECTRICAL CHARACTERISTICS

RFANT3216110Y1T	Specification
Working Frequency Range	6240 ~ 8500 MHz
Fc	7370 MHz
Gain	3 – 4.5 dBi
VSWR	2 max.
Efficiency	70 – 80 %
Power Capacity	3W 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: -40°C ~ +85°C Storage Temperature Range: -40°C ~ +85°C	
Storage Condition before Soldering (Included packaging material) Storage Temperature Range: +5 ~ +40°C Humidity: 30 to 70% relative humidity	

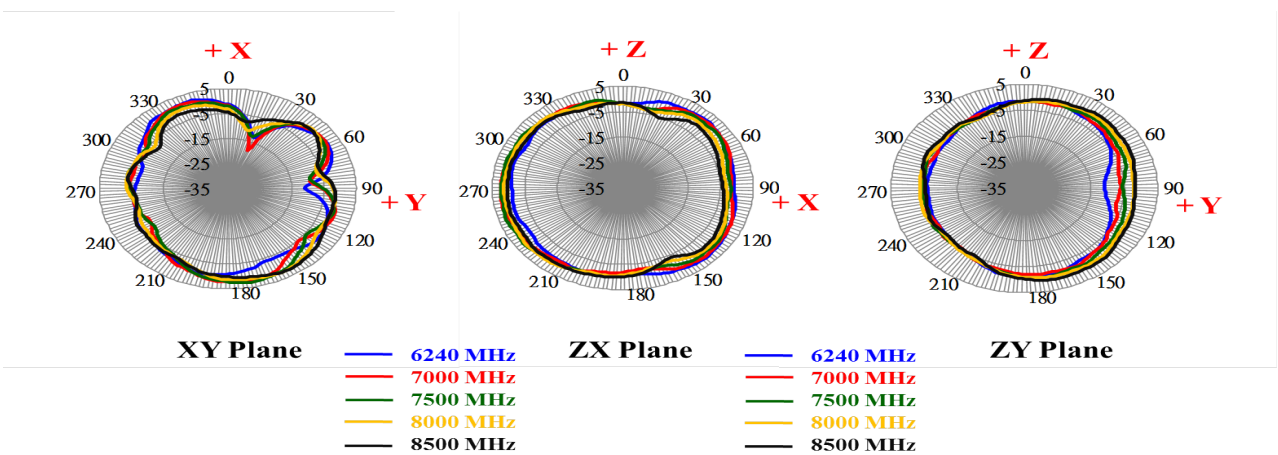
SOLDER LAND PATTERN DESIGN



Antenna S11 on Test Board



RADIATION PATTERNS



CONTACT INFORMATION

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Specification subject to change without prior notice