

915 MHz Ceramic Chip Antenna



ACAG1204-915-T

12.0 x 4.0 x 1.6mm
RoHS/RoHS II Compliant
MSL = 1

FEATURES

- Uses Low Temperature Co-Fired Ceramic (LTCC) Technology
- Gain of 3.42 dBi
- Omnidirectional
- VSWR of ≤ 2.0

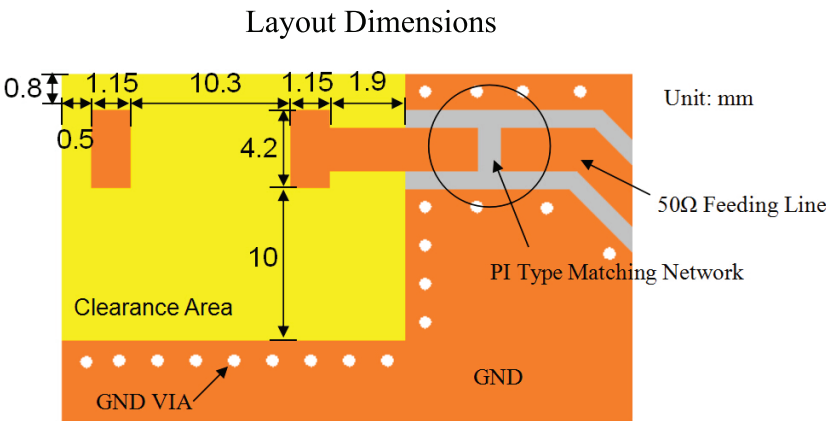
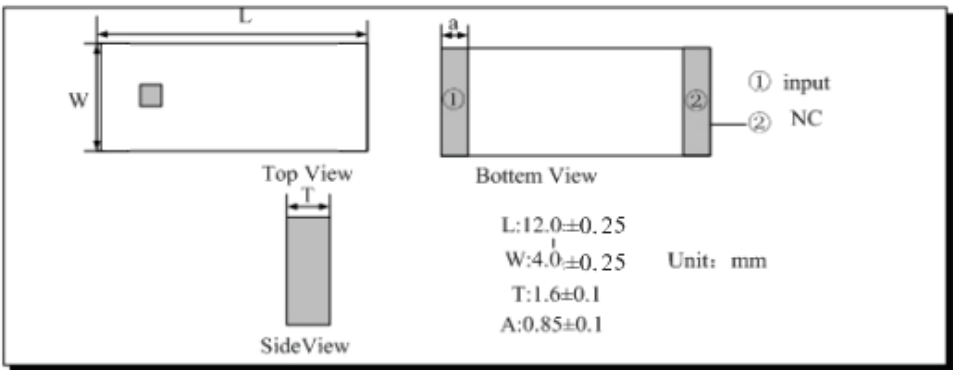
APPLICATIONS

- ISM applications
- LORA
- Sigfox
- RFID

ELECTRICAL SPECIFICATIONS

Item	Specification
Frequency	915MHz
Bandwidth	15MHz typ
VSWR	≤ 2.0
Impedance	50 Ω
Gain	3.42dBi
Azimuth	Omni-directional
Polarization	Linear
Operating Temperature range	-40°C ~+ 85°C

DIMENSIONS



Unit: mm

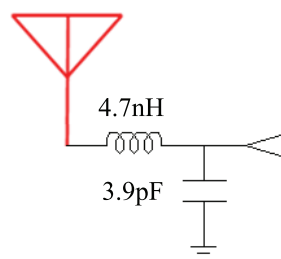
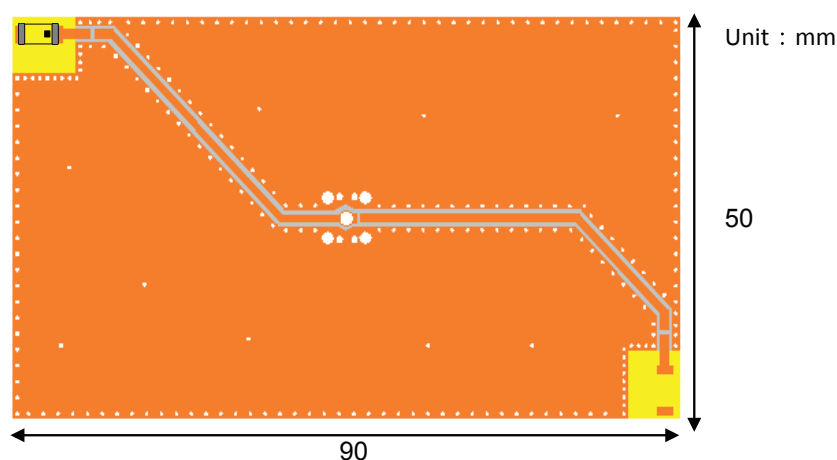
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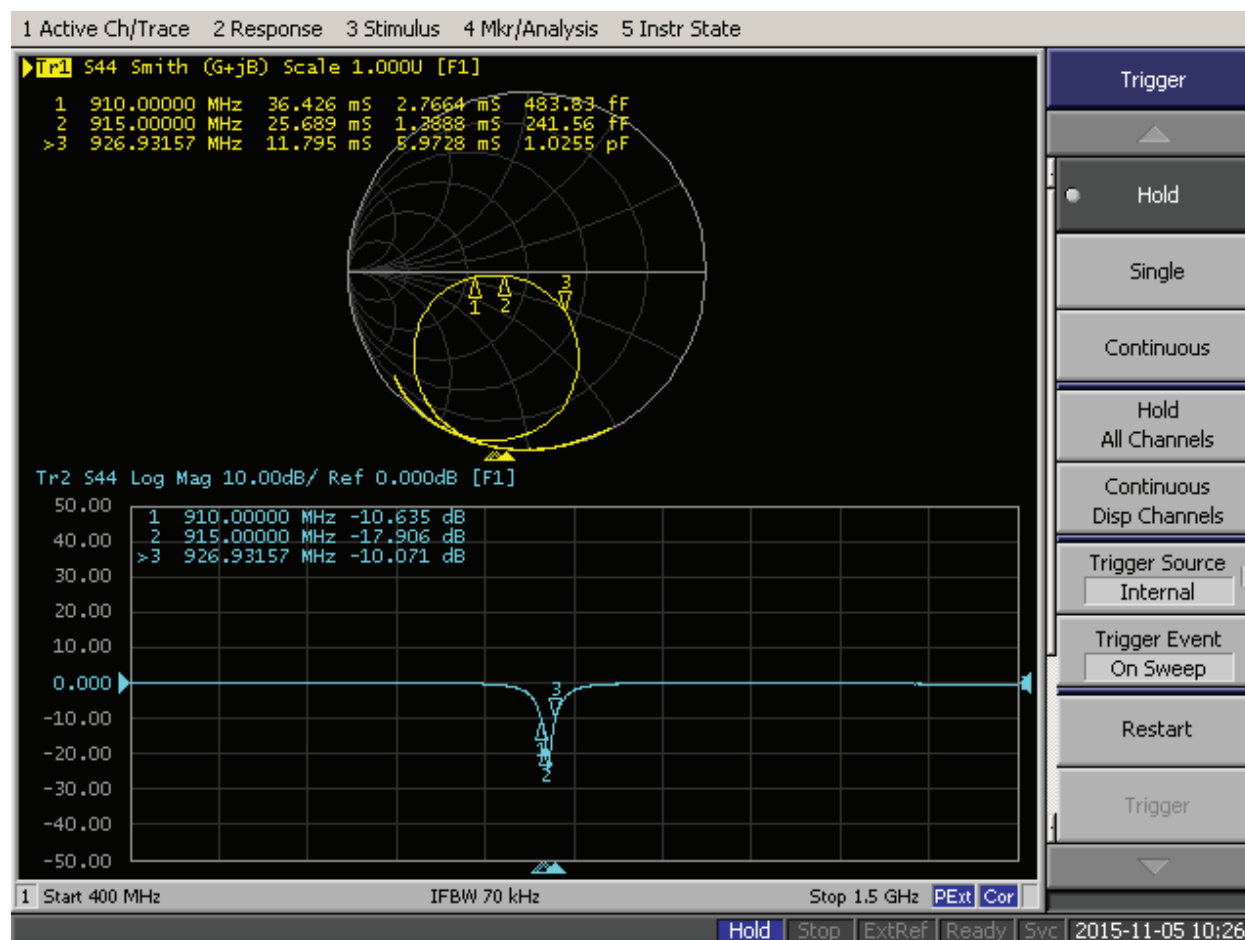


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EVALUATION BOARD AND MATCHING CIRCUITS

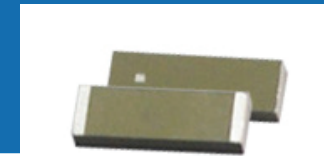


ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11



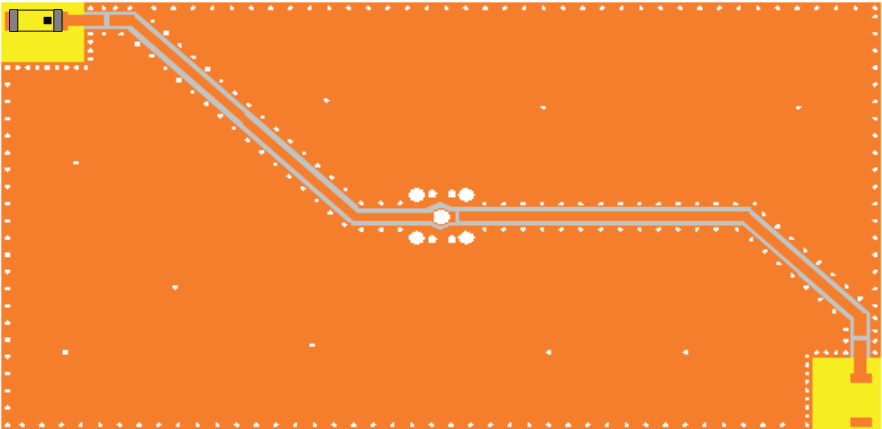
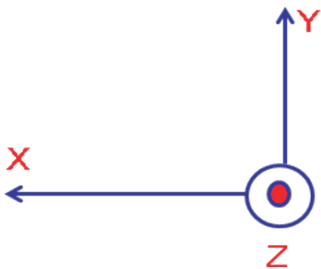
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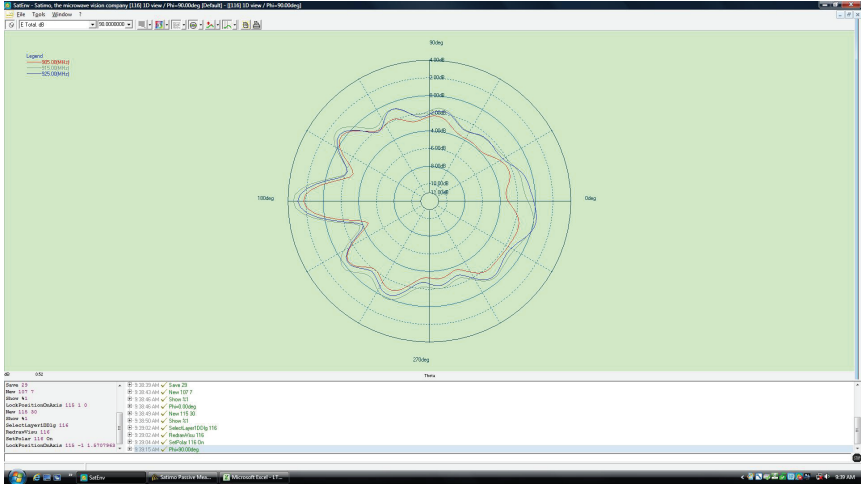
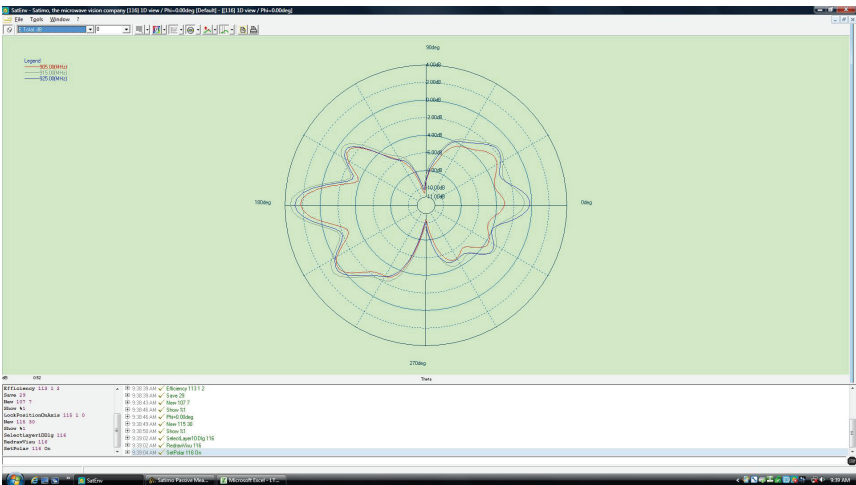
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RADIATION PATTERNS

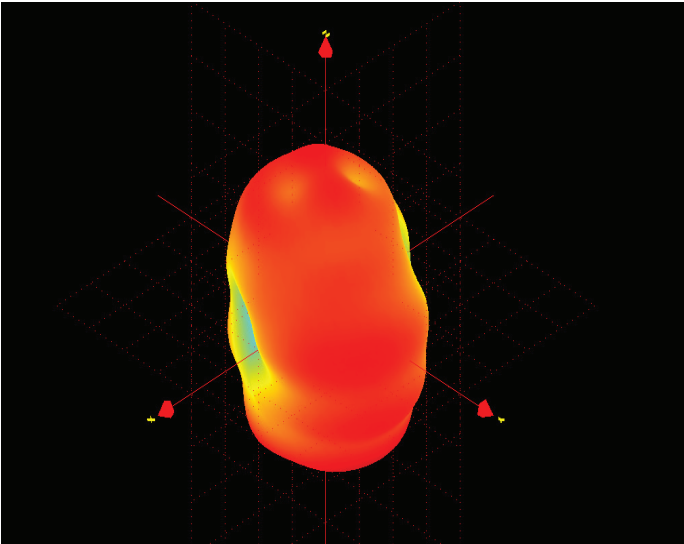
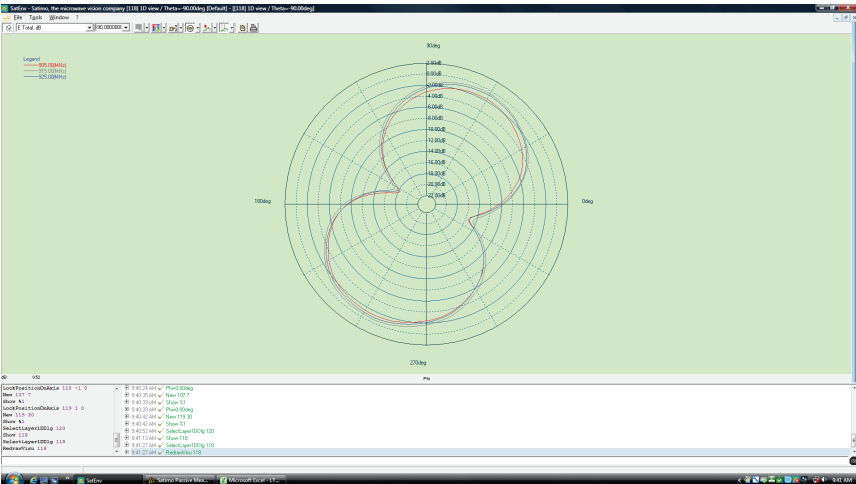


X-Z Plane

Y-Z Plane



X-Y Plane



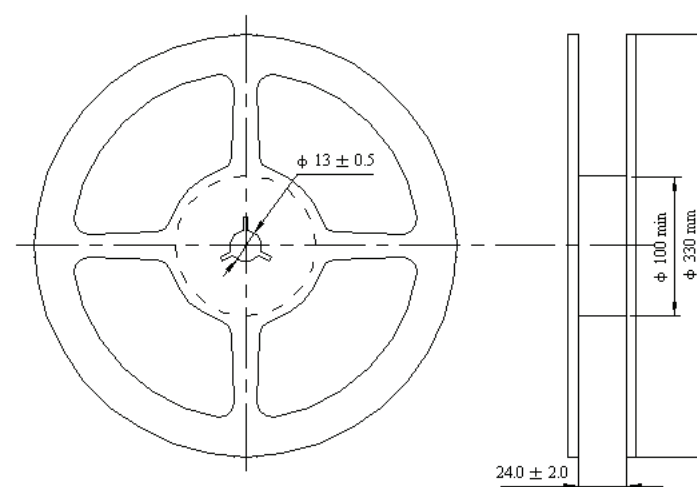
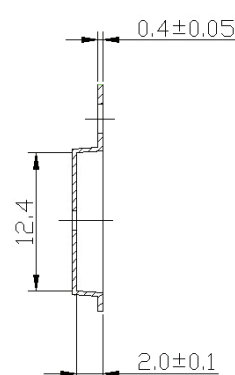
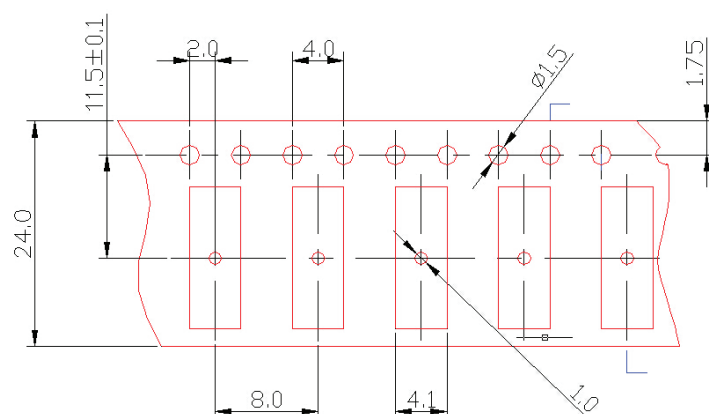
Frequency (MHz)	910	915	925
Avg. Gain (dBi)	-2.56	-2.12	-2.25
Peak Gain (dBi)	3.15	3.42	3.08
Efficiency (%)	54	59	53

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Figure 1 is a graph showing the temperature profile of the sample during the DSC measurement. The Y-axis is Temperature (Temp) in degrees Celsius (°C), ranging from 0 to 250. The X-axis is Time in seconds (s). The profile shows a heating curve with a peak at 265°C. Key features include: a heating rate of 10°C/min; a temperature range of 250°C ± 10°C; a peak at 265°C with a width of 5 seconds; a plateau at 180°C; and time intervals of 60-120 seconds and 30-40 seconds.

Package Type	Quantity/Size
Inner Box	3000 pcs/reel
Carton	15000 pcs/carton
Size of the carton	345 x 250 x360 mm

Reel Dimensions (mm)



Unit: mm

Only leads of the component may be soldered. Please avoid soldering to any other part of the component, such as on the patterns as this will change the performance of the antenna.