

ACAG1204-868-T



FEATURES

- Uses Low Temperature Co-Fired Ceramic (LTCC) Technology
- Gain of 2.63 dBi
- · Omni-directional
- VSWR of ≤ 2.0

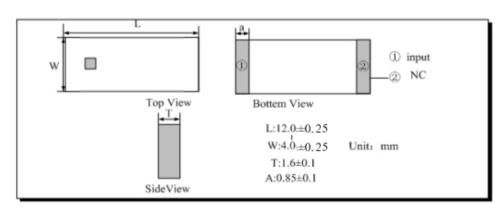
APPLICATIONS

- ISM applications
- LORA
- Sigfox
- RFID

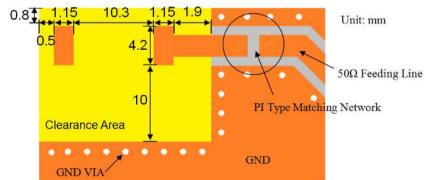
ELECTRICAL SPECIFICATIONS

Item	Specification
Frequency	868MHz
Bandwidth	20MHz typ
VSWR	≤2.0
Impedance	50Ω
Gain	2.63dBi
Azimuth	Omni-directional
Polarization	Linear
Operating Temperature range	-40°C ~+ 85°C

DIMENSIONS



Layout Dimensions



Unit: mm



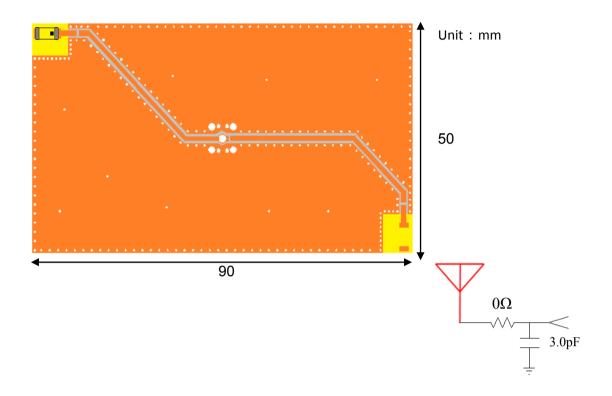
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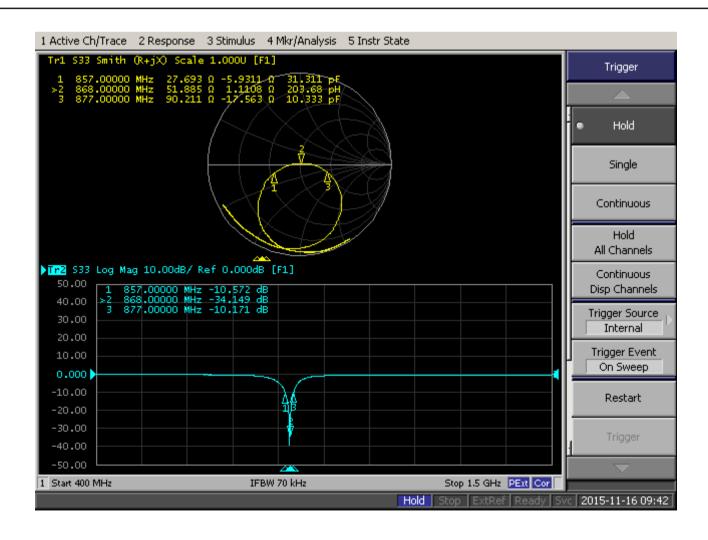
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EVALUATION BOARD AND MATCHING CIRCUITS



ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11





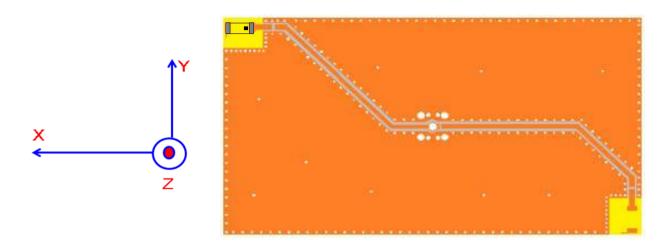
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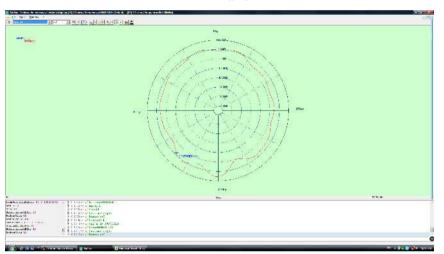
RADIATION PATTERNS



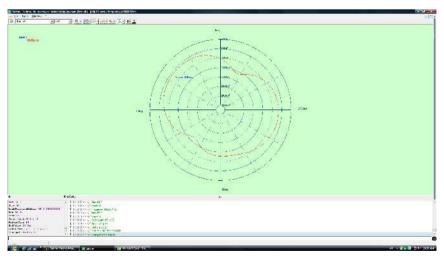
X-Z Plane

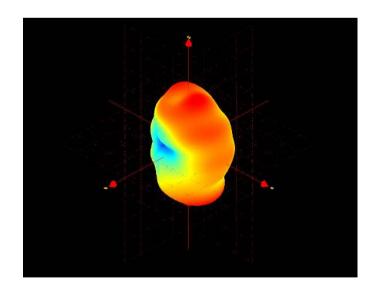
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Y-Z Plane



X-Y Plane





Frequency (MHz)	858	868	878
Avg. Gain (dBi)	-2.68	-2.05	-2.72
Peak Gain (dBi)	2.35	2.63	2.26
Efficiency (%)	48	52	50



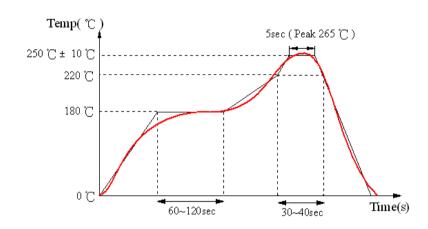
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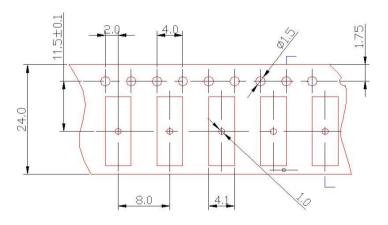
REFLOW PROFILE

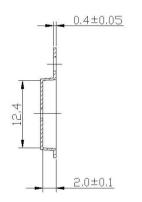


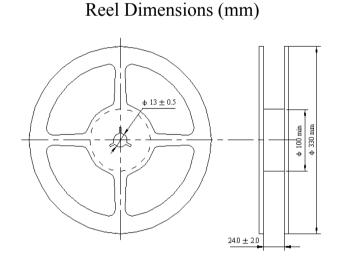
PACKAGING

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

Tape Dimensions (mm)







Unit: mm

CAUTIONS

1. Static voltage

Static voltage between signal & ground may cause deterioration & destruction of the component. Please avoid static voltage.

2. Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

3. Soldering

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.



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