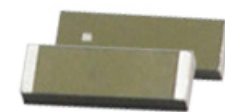


433 MHz Ceramic Chip Antenna



ACAG1204-433-T

12.0 x 4.0 x 1.6mm



RoHS/RoHS II Compliant

MSL = 1

FEATURES

- Made using LTCC (low temperature co-fired ceramic) technology
- Low frequency of 433 MHz
- VSWR ≤ 2
- Compact profile 12.0 x 4.0 x 1.6mm
- Omni-directional

APPLICATIONS

- ISM Band
- RFID
- SigFox
- LoRa
- Wireless
- Home Automation
- IoT
- Medical Devices
- Smart Meters
- Remote Technology/Monitoring
- M2M

ELECTRICAL CHARACTERISTICS

Item	Spec
Frequency	433 MHz
Bandwidth	10 MHz typ
Return Loss	-6.5 dB
VSWR	≤ 2.0
Impedance	50 Ω
Peak Gain	-1.72 dBi
Azimuth	Omni-directional
Polarization	Linear

ENVIRONMENTAL CHARACTERISTICS

Item	Spec
Operating Temperature Range	-55°C to + 125°C
Storage Temperature Range	-55°C to + 125°C
Relative Humidity Range	55 to 75% RH



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REVISED: 07.29.2019

ABRACON IS
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433 MHz Ceramic Chip Antenna



ACAG1204-433-T

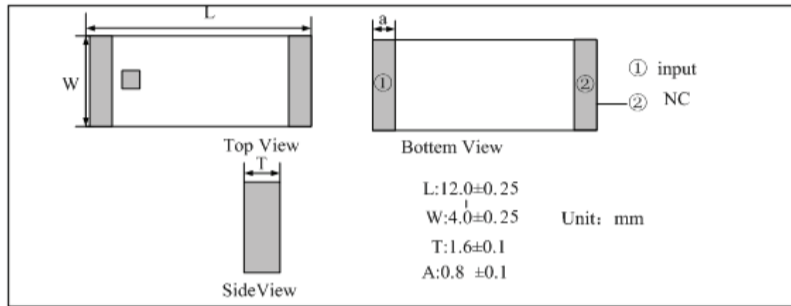
12.0 x 4.0 x 1.6mm

RoHS/RoHS II Compliant

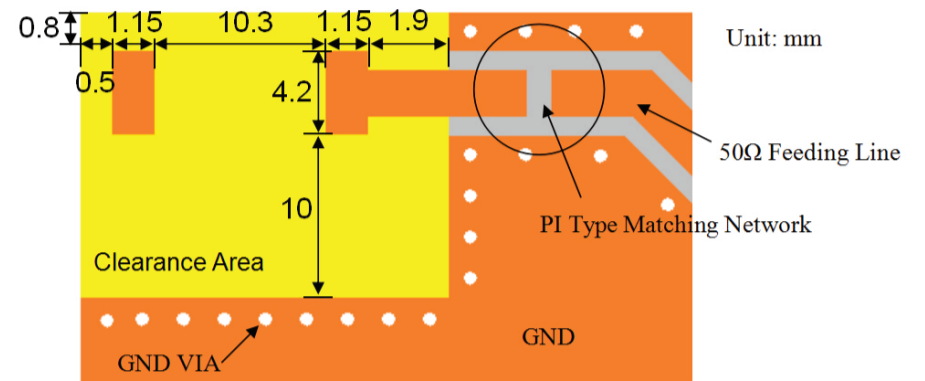
MSL = 1

MECHANICAL DIMENSIONS

Antenna Dimensions

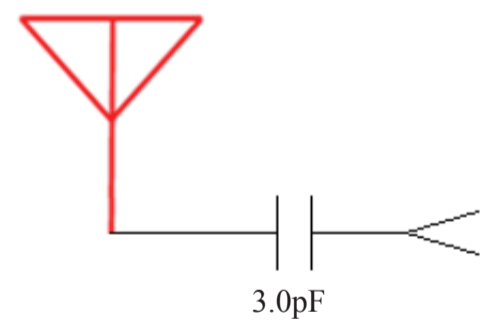
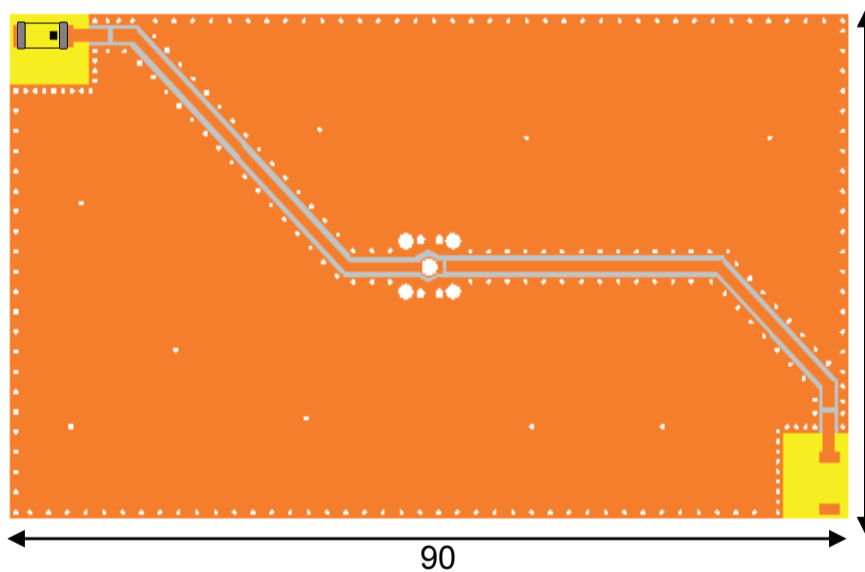


Layout Dimensions

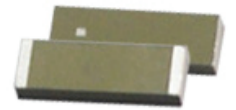


Dimensions (mm)

EVALUATION BOARD AND MATCHING CIRCUITS



433 MHz Ceramic Chip Antenna



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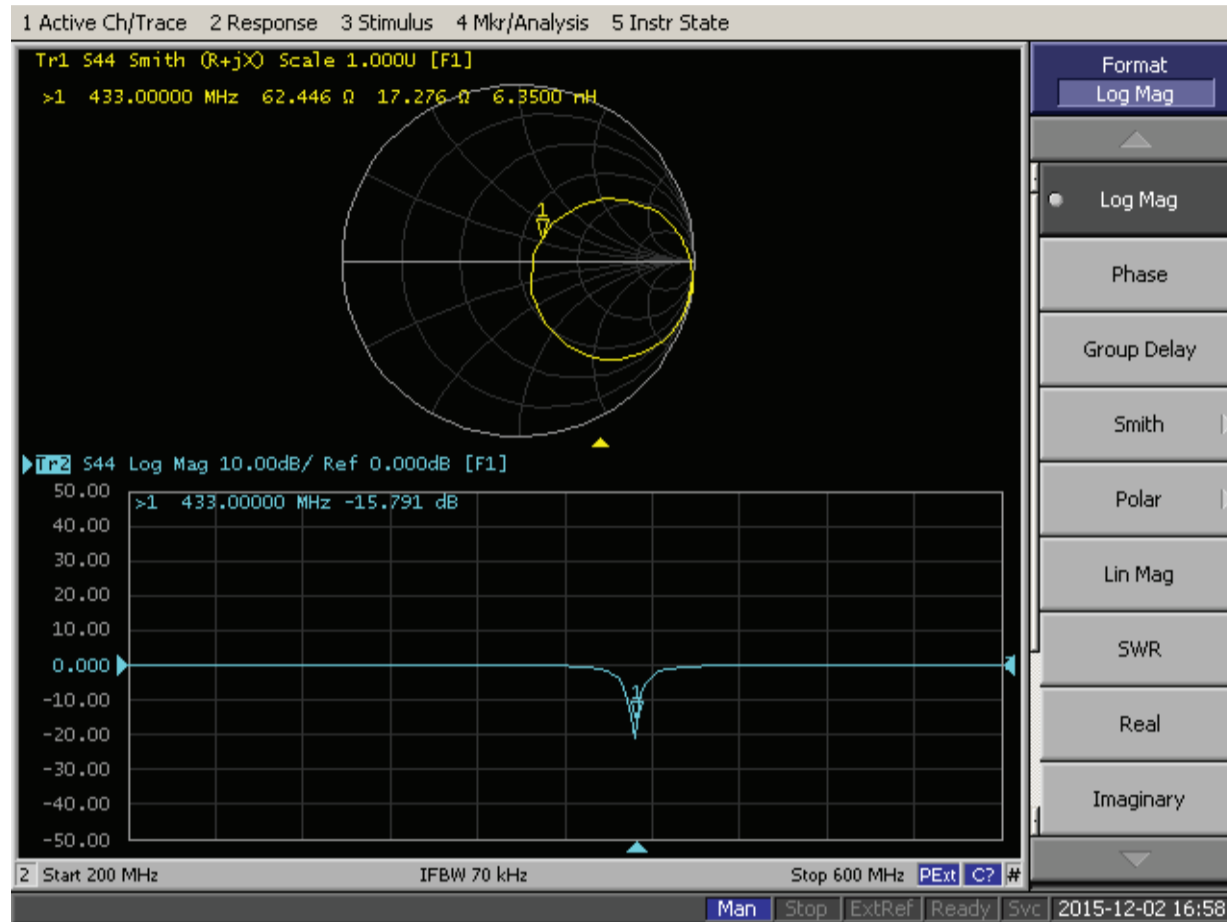
12.0 x 4.0 x 1.6mm



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ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11



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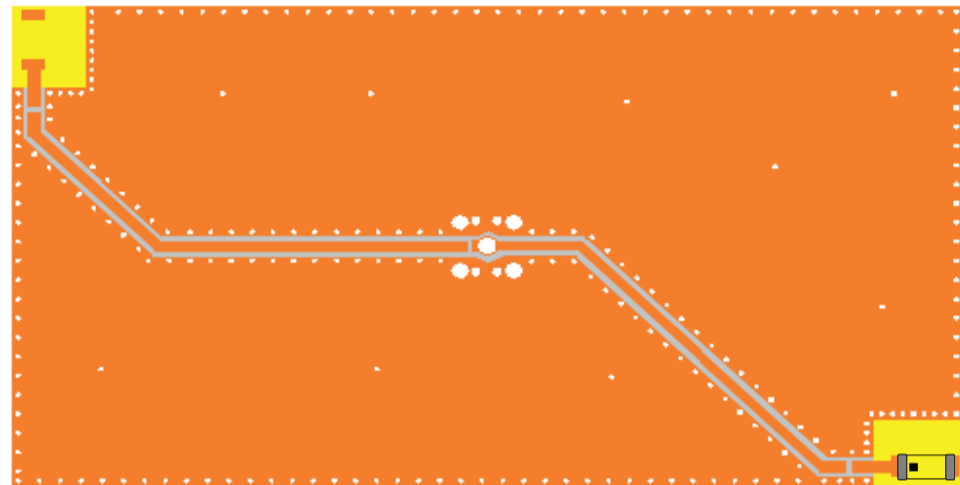
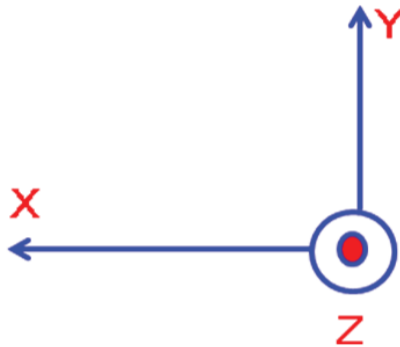


RoHS/RoHS II Compliant

MSL = 1

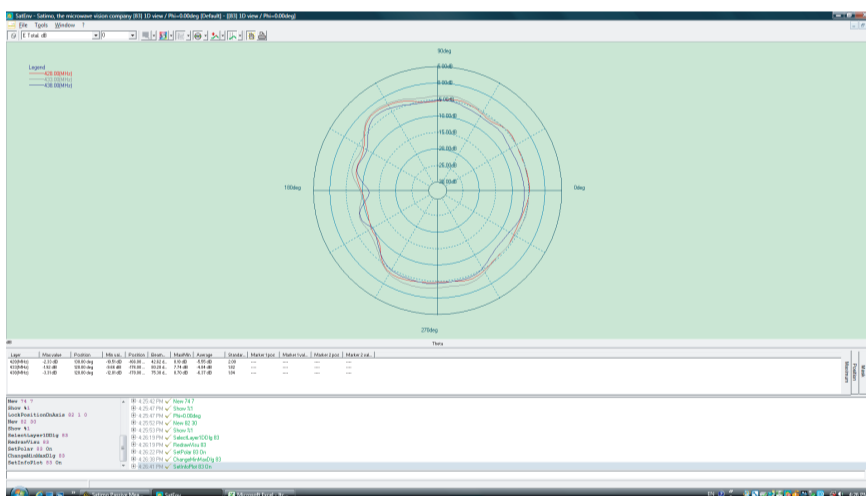
RADIATION PATTERNS

Coordinates

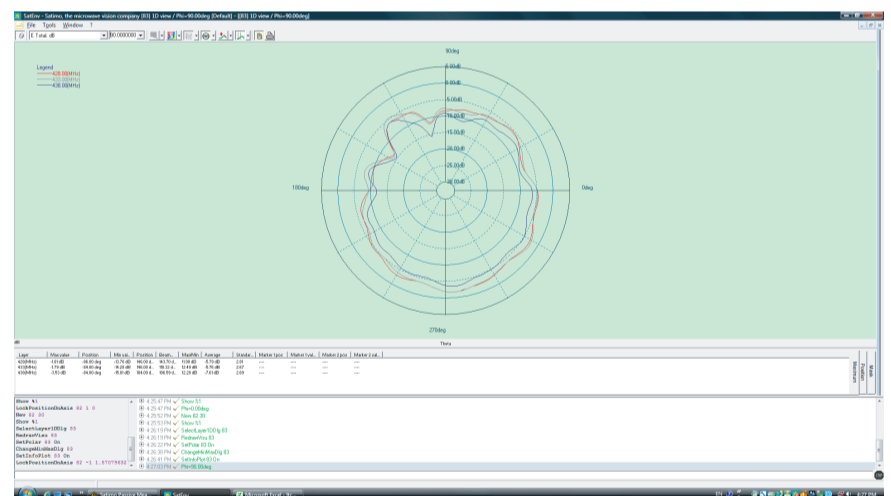


RADIATION PATTERNS

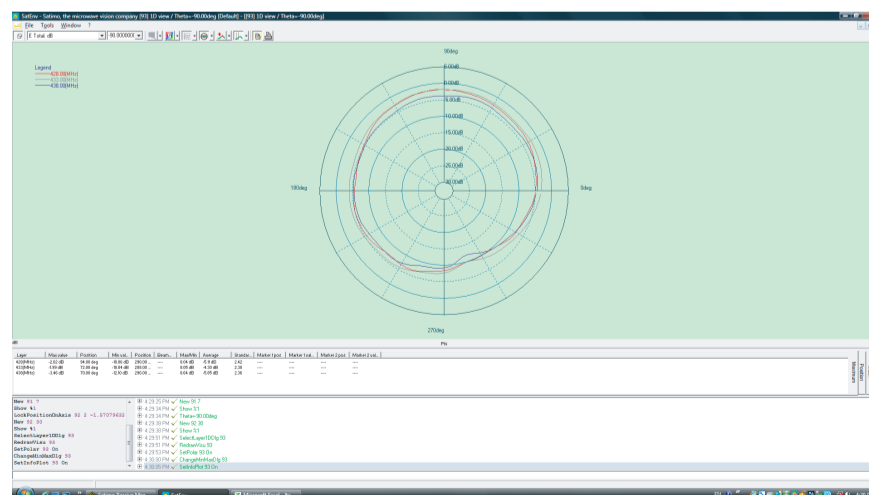
X-Z Plane



Y-Z Plane



X-Y Plane



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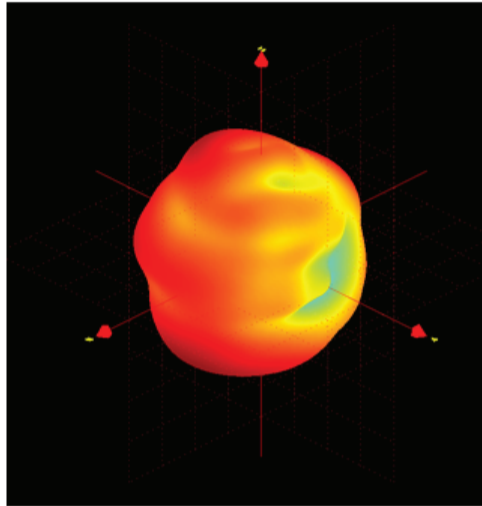
ACAG1204-433-T

12.0 x 4.0 x 1.6mm

 RoHS/RoHS II Compliant

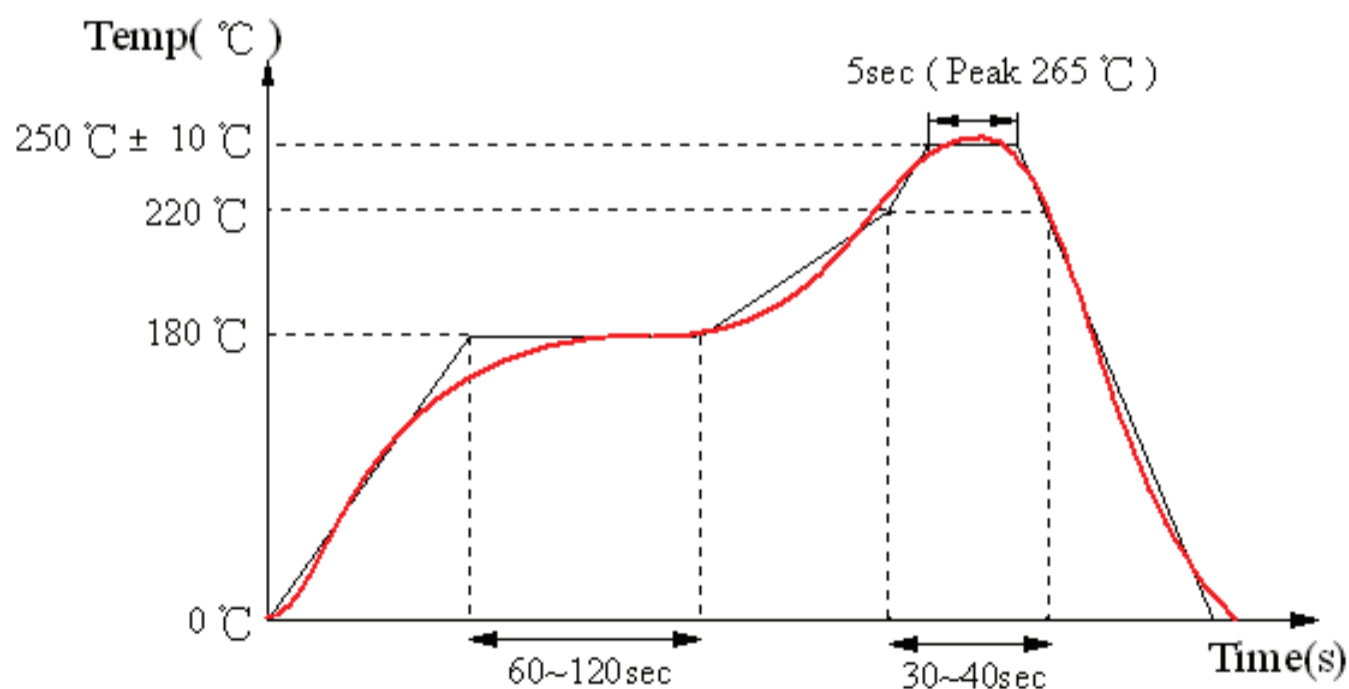
MSL = 1

3D PATTERNS

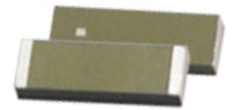


Frequency (MHz)	428	433	438
Avg. Gain (dBi)	-5.55	-4.84	-6.37
Peak Gain (dBi)	-1.85	-1.72	-1.93
Efficiency (%)	33	35	33

REFLOW SOLDERING STANDARD CONDITION



433 MHz Ceramic Chip Antenna



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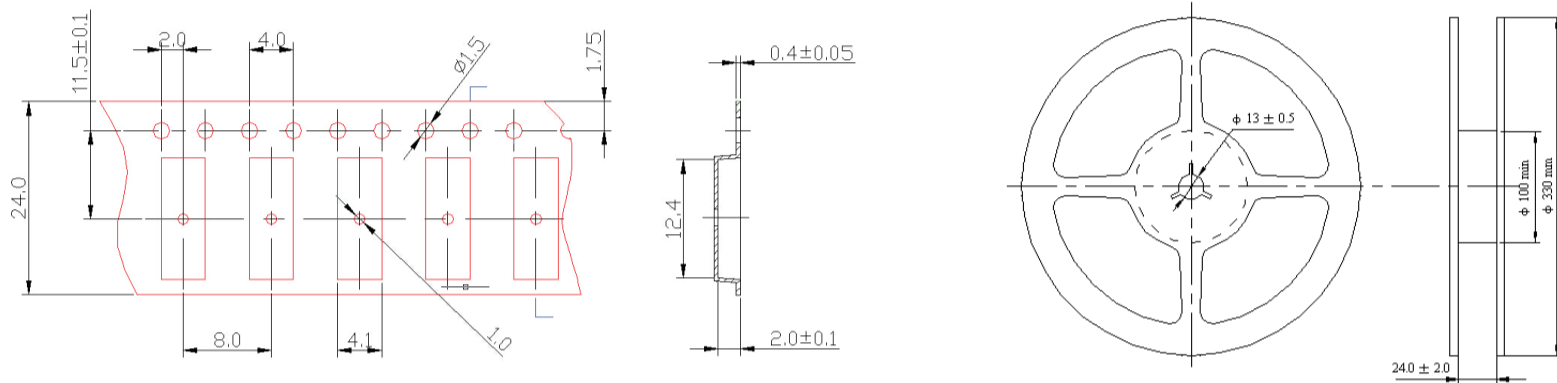


RoHS/RoHS II Compliant

MSL = 1

PACKAGING

Package Type	Quantity/Size
Inner Box	3000 pcs/reel
Size of the carton	345 x 250 x 360 mm



Dimensions: mm

MSL - 1

Oxidizable, 12 months in a vacuum sealed bag.

Once opened, please repack the unused items within 168 hours by re-seal package treatment.

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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