ACAG1204-433-T

12.0 x 4.0 x 1.6mm Pb 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
- o 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	50Ω	
Peak Gain	-1.72 dBi	
Azimuth	Omni-directional	
Polarization	Linear	

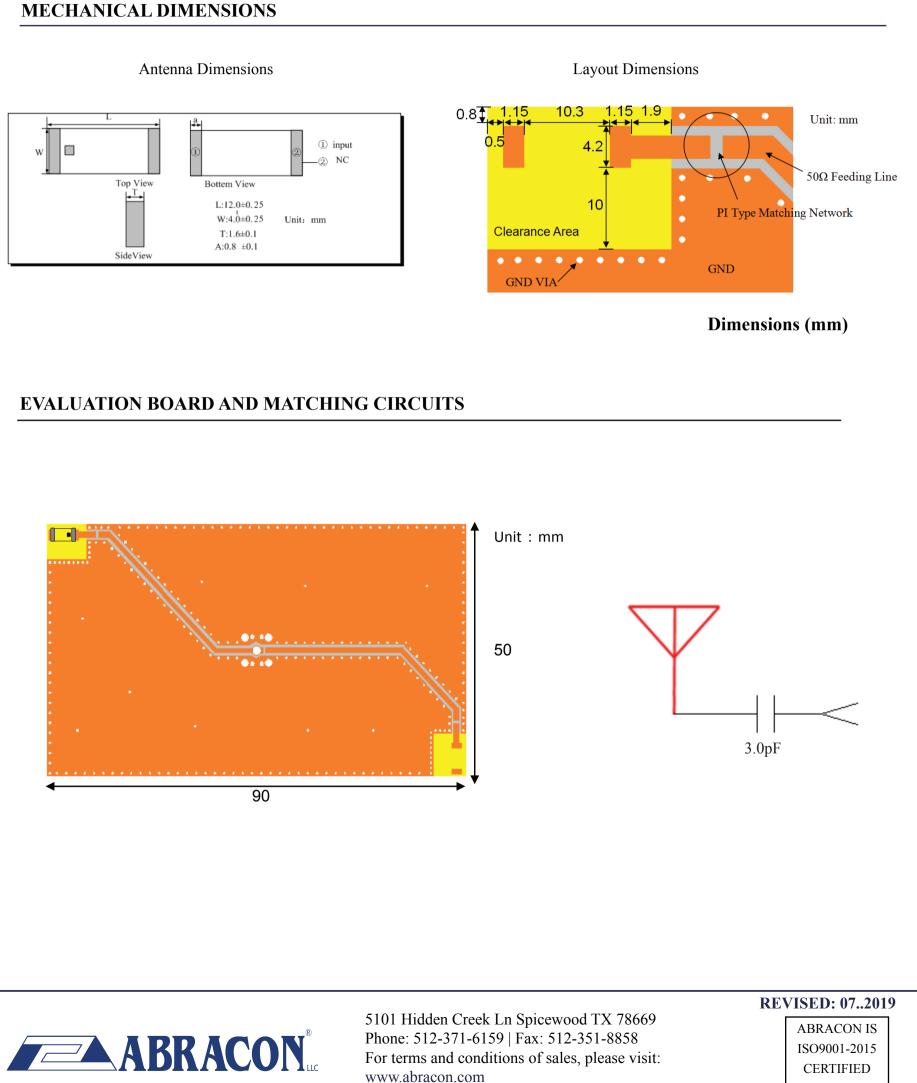
ENVIRONMENTAL CHARACTERISTICS

Item	Spec
Operating Temperature Range	-55°C to + 125°C
Storage Temperature Range	-55° C to $+ 125^{\circ}$ C
Relative Humidity Range	55 to 75% RH



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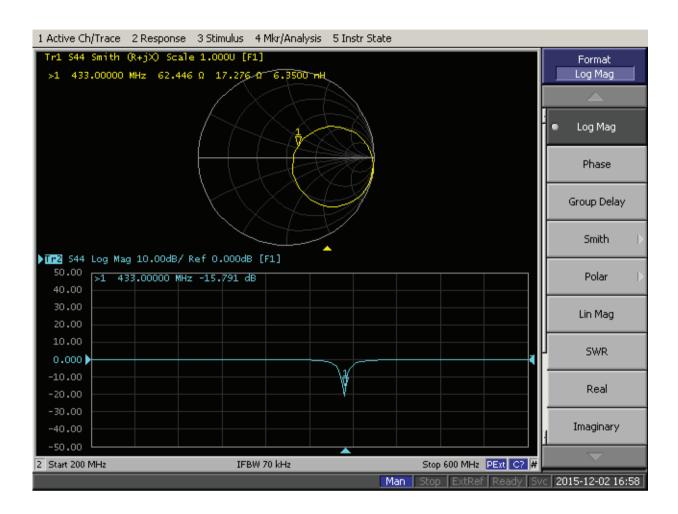
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ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11





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ABRACON IS ISO9001-2015 CERTIFIED



12.0 x 4.0 x 1.6mm

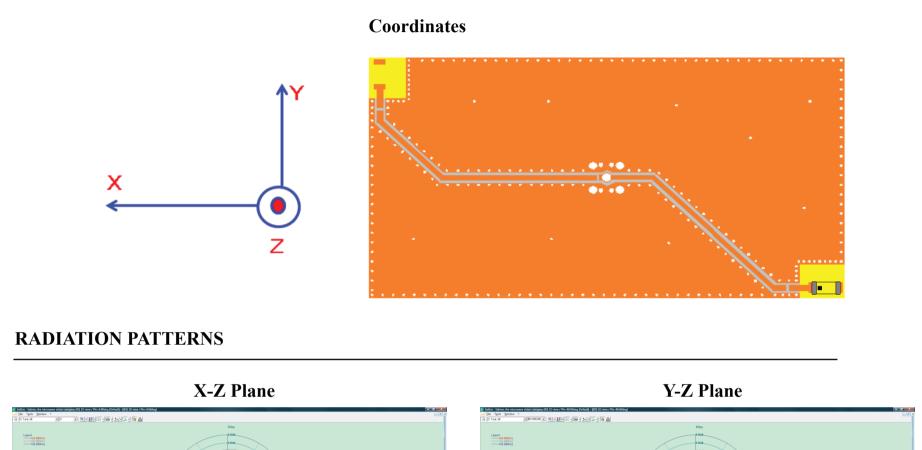
MSL = 1

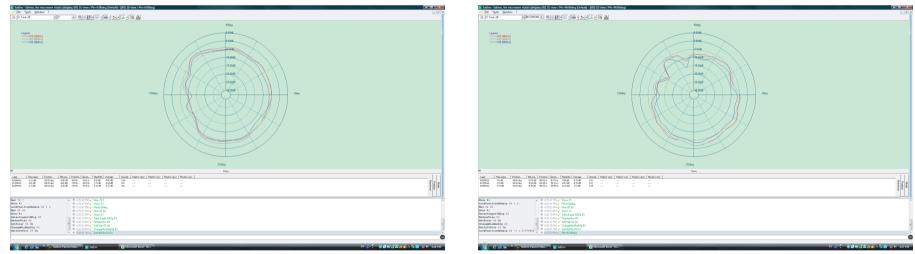
(Pb) RoHS/RoHS II Compliant

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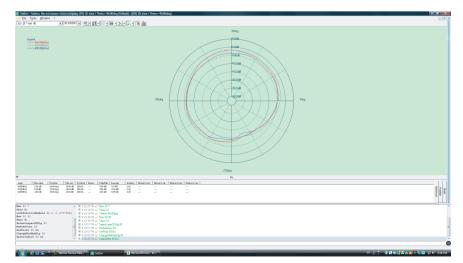


RADIATION PATTERNS





X-Y Plane





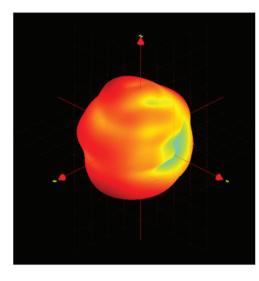
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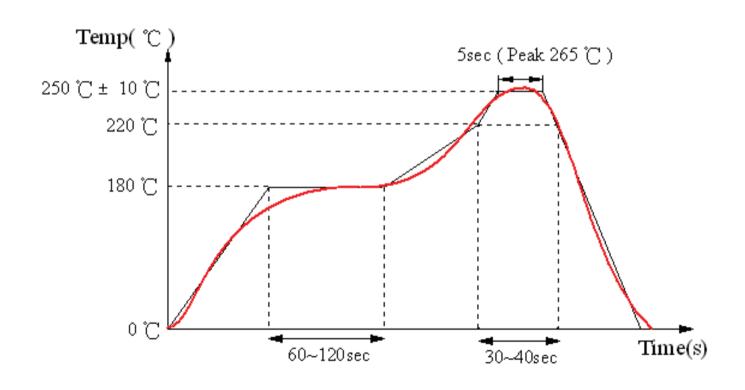
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3D PATTERNS



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





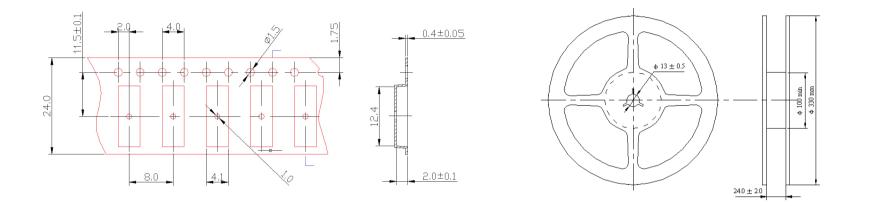
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PACKAGING

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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