

PART NUMBER: ANT1204F002R0433A**Features:**

- Size : 12.3x4.0x1.6 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

**Applications:**

- Smart meter
- Industrial remote control
- ISM band equipment

Manufacturer :
Pulse Worldwide Headquarters

Model: 1204

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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PART NUMBER: ANT1204F002R0433A

ELECTRICAL SPECIFICATIONS

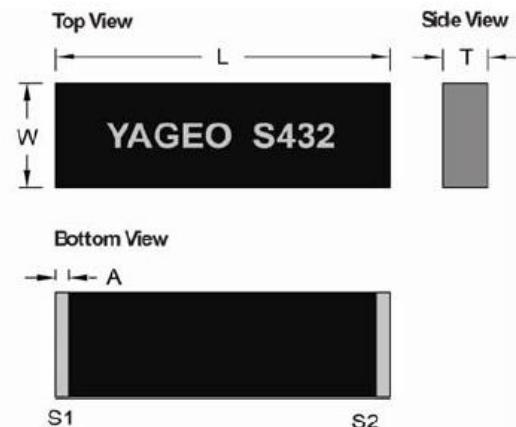
Working Frequency	419-447 MHz
Bandwidth	/
Return Loss	6.5 dB Min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.79 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	-40~105 °C
Maximum Power	2 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

Dimension	
L (mm)	12.3 ±0.20
W (mm)	4.00 ±0.20
T (mm)	1.60 ±0.20
A (mm)	0.50 ±0.20



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

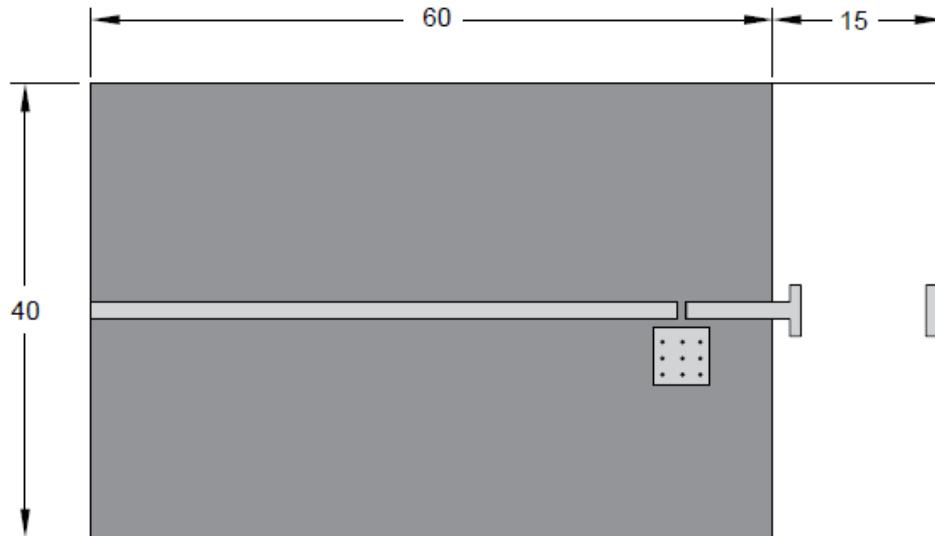
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REFERENCE DESIGN OF EVALUATION BOARD

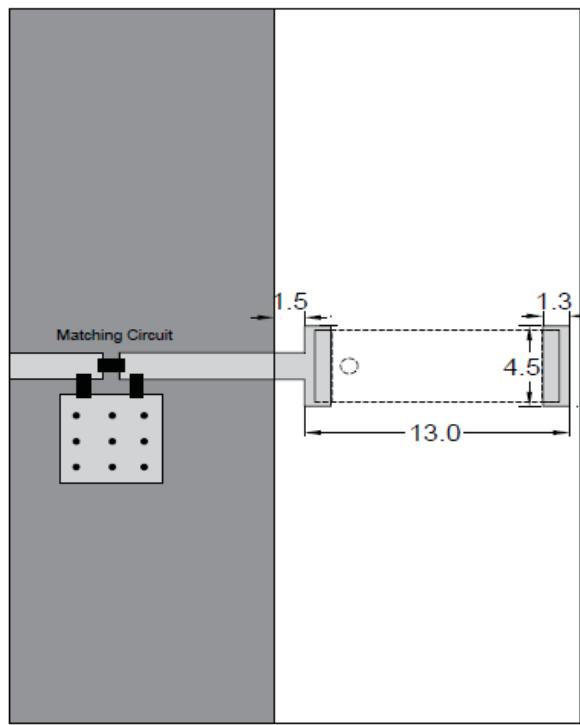


Outlook and dimension of evaluation board

Unit : mm

Top Layer
Bottom Layer / GND

Unit : mm



Details of soldering Pad

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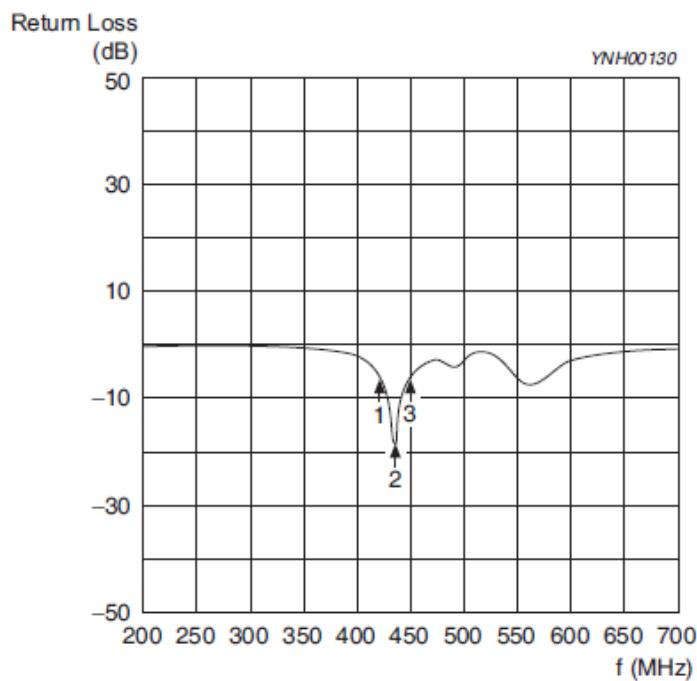
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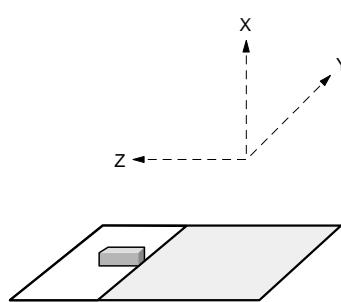
PART NUMBER: ANT1204F002R0433A

ELECTRICAL PERFORMANCES

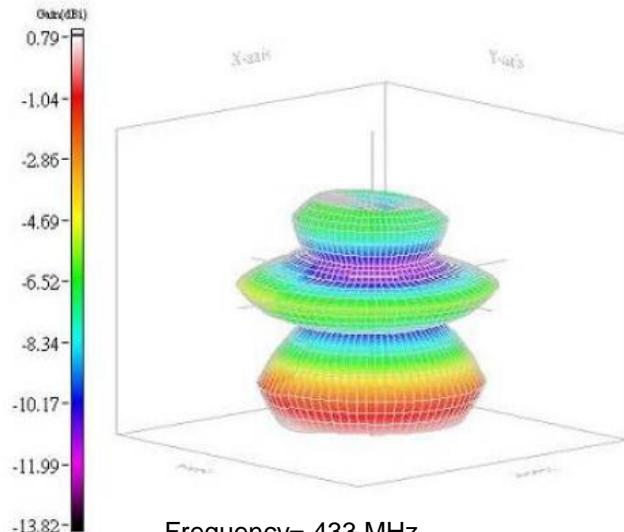


Marker data
 1. 419MHz, -6.5dB
 2. 433MHz, -16 dB
 3. 447MHz, -6.5dB

Return loss



Evaluation board and XYZ direction



Frequency= 433 MHz
 Max gain = 0.79 dBi, at (150,330)
 MEG (mean effective gain)= -4.84 dBi
 Directivity (dB) = 6.35
 Efficiency = -5.56dB, 27.79 %

Radiation pattern

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