

Description: 1204 433MHz FR4 Chip Antenna

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

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

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ELECTRICAL SPECIFICATIONS

Working Frequency 433 MHz **Bandwidth** 28 MHz(Typ.) **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 Ni / Sn (Environmentally-Friendly Leadless) **Termination** 260°C , 10sec. **Resistance to Soldering Heats**

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension		Top View	Side View
L (mm)	12.3 ±0.20			
W (mm)	4.00 ± 0.20	FACE	VA CEO 6433	
T (mm)	1.60 ± 0.20	TAGEO SAGE	W YAGEO S432	
A (mm)	0.50 ± 0.20	-	<u> </u>	
			Bottom View	
			A	_
			64	
			S1 S2	

Terminal name	Function
S1	Feeding Point
S2	Soldering Point

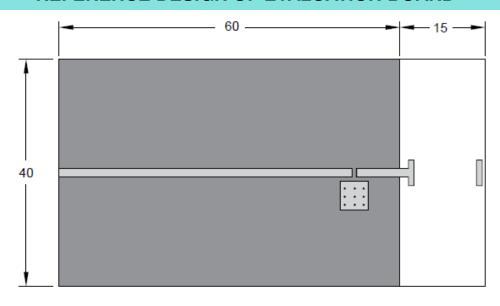
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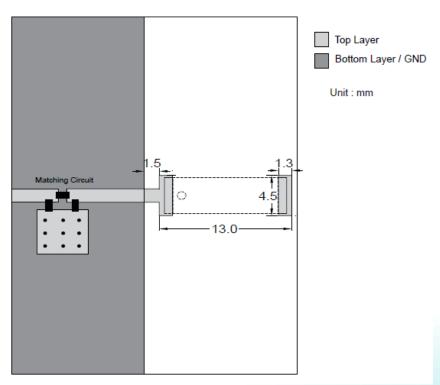
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

Unit: mm



Details of soldering Pad

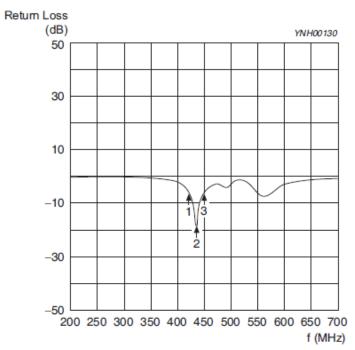
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ELECTRICAL PERFORMANCES



Marker data

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

Return loss

Z -----

Evaluation board and XYZ direction

0.79-FP
-1.04-2.86-4.69-6.52-8.34-10.17-11.99-

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

-13.82-



Date

Apr. 29, 2021

Revision

Version 1

TECHNICAL DATA SHEET

Description: 1204 433MHz FR4 Chip Antenna

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- New issue for Maximum Power 2W.

REVISION HISTORY	
Description	