AMC-ANT-2J0A02-2.4-C166G

2.4GHz ISM connector mount antenna

Features

- 2.4GHz ISM
  - 2410 – 2490MHz
- High efficiency
- Ground plane dependent
- Connector mount
- Dimensions: 44 x 9.6mm

Alpha Micro Components: Tel: +44 1256 851770 | email: sales@alphamicro.net
www.alphamicro.net

1. Antenna and electrical specifications

Parameters	2.4GHz ISM antenna
Standards	Wi-Fi, Bluetooth, ZigBee, ISM
Band (MHz)	2.4GHz
Frequency (MHz)	2410 - 2490
Return loss (dB)	~-4.2
VSWR	~4.1:1
Efficiency (%)	~61
Peak gain (dBi)	~3.5
Average gain (dB)	~-2.1
Impedance (Ohms)	50
Polarization	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector type	RP-SMA male

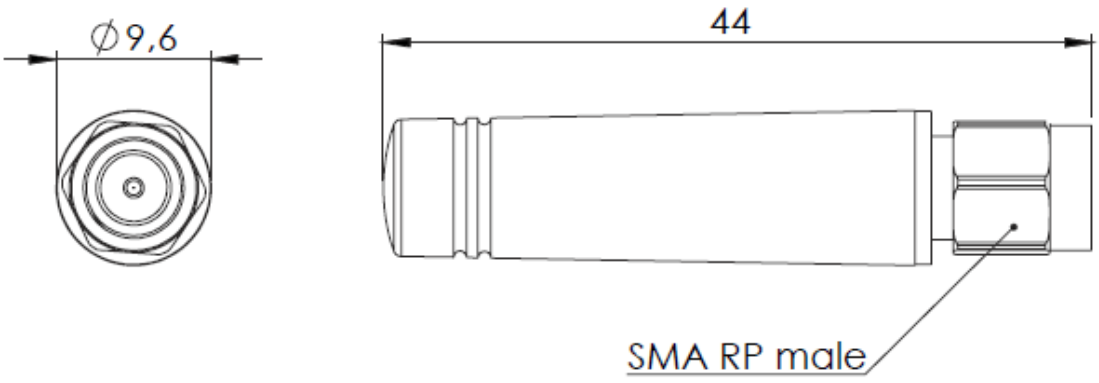
Measurement Conditions:

- Mounted on 70 x 35mm ground plane
- Measured in certified CTIA 3D anechoic chamber

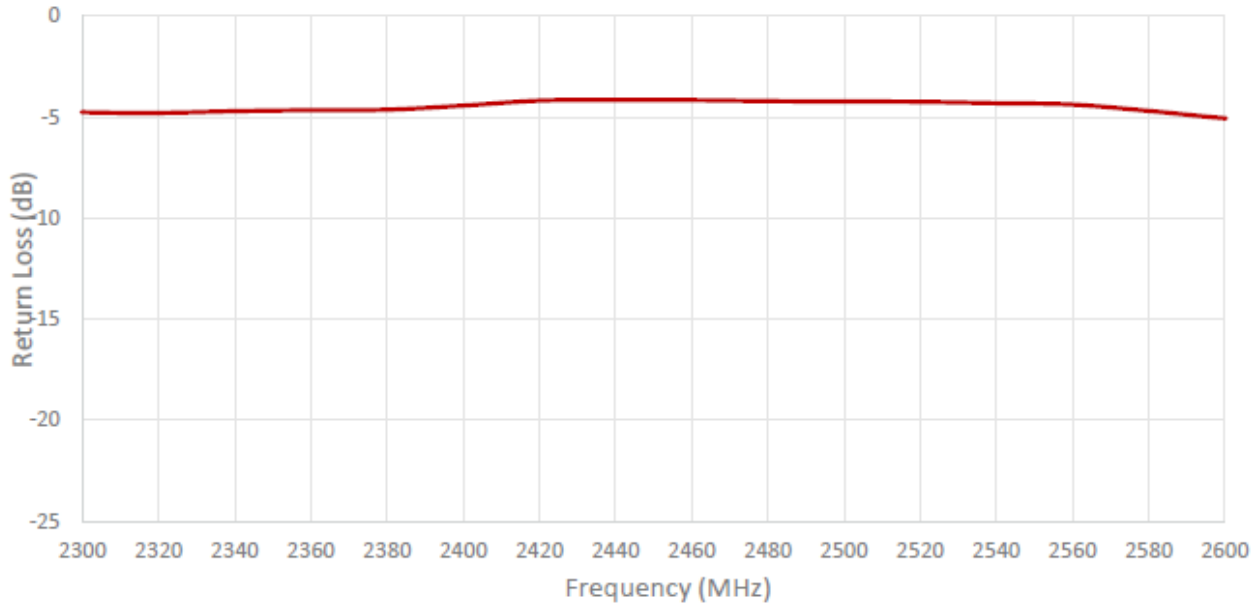
2. Mechanical and environmental specifications

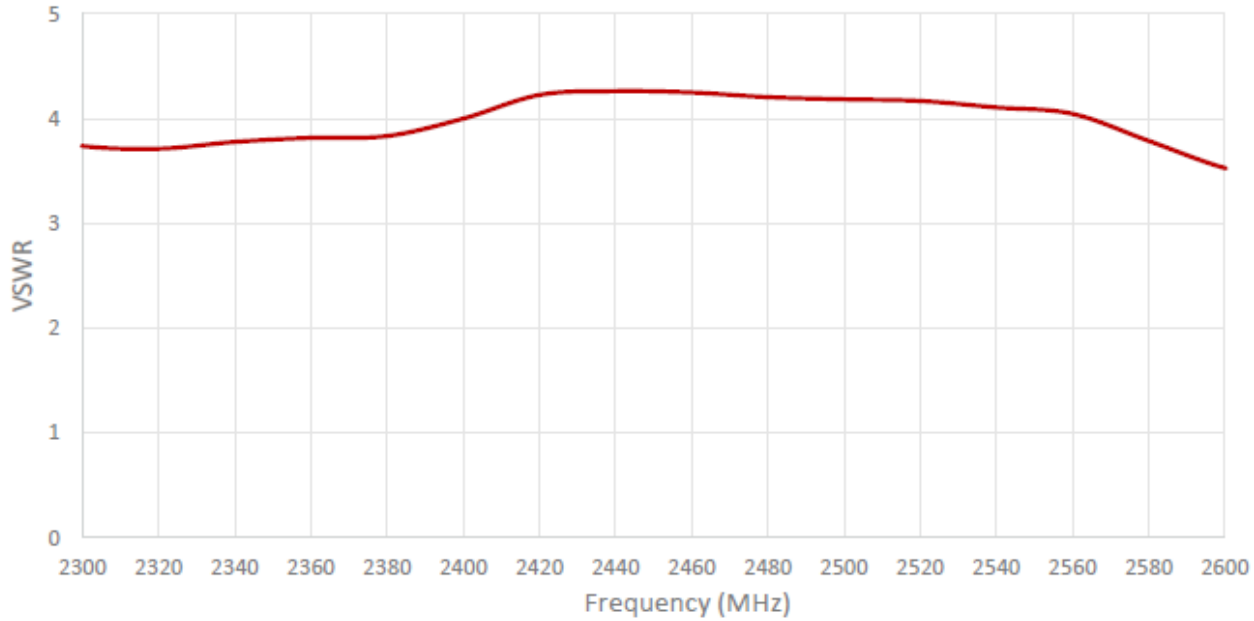
Mounting type	Connector mount
Dimensions (mm)	44 x 9.6
Radome	ABS UV stable
Radome colour	Black
Operating temperature (°C)	-40 to +85
Storage temperature (°C)	-40 to +85
Substance compliance	RoHS

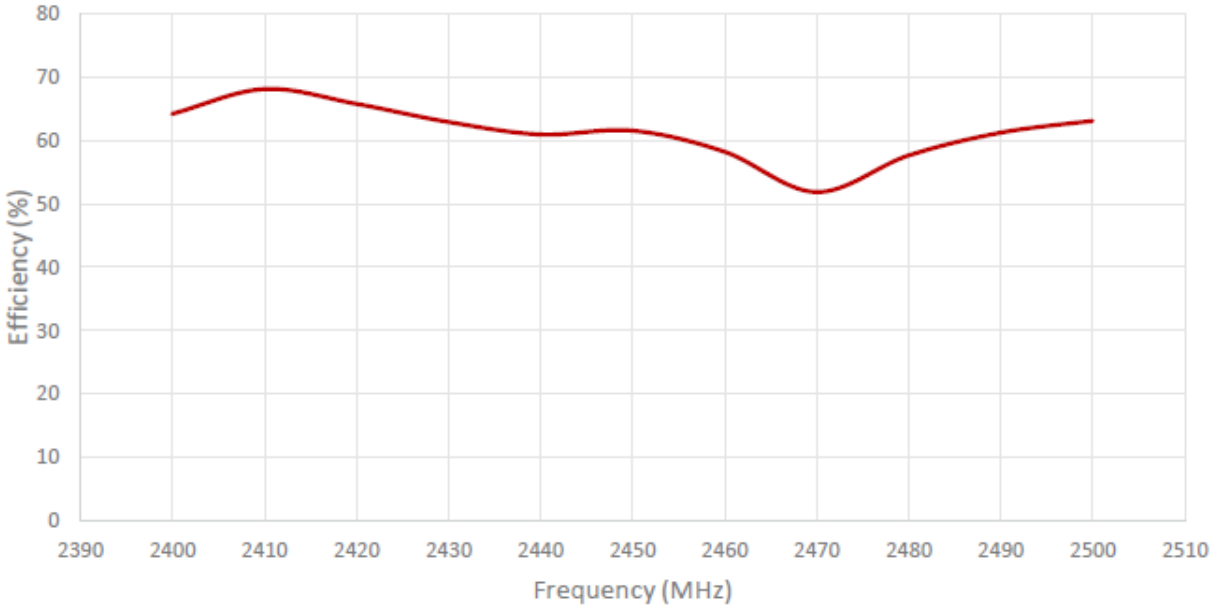
3. Antenna drawings

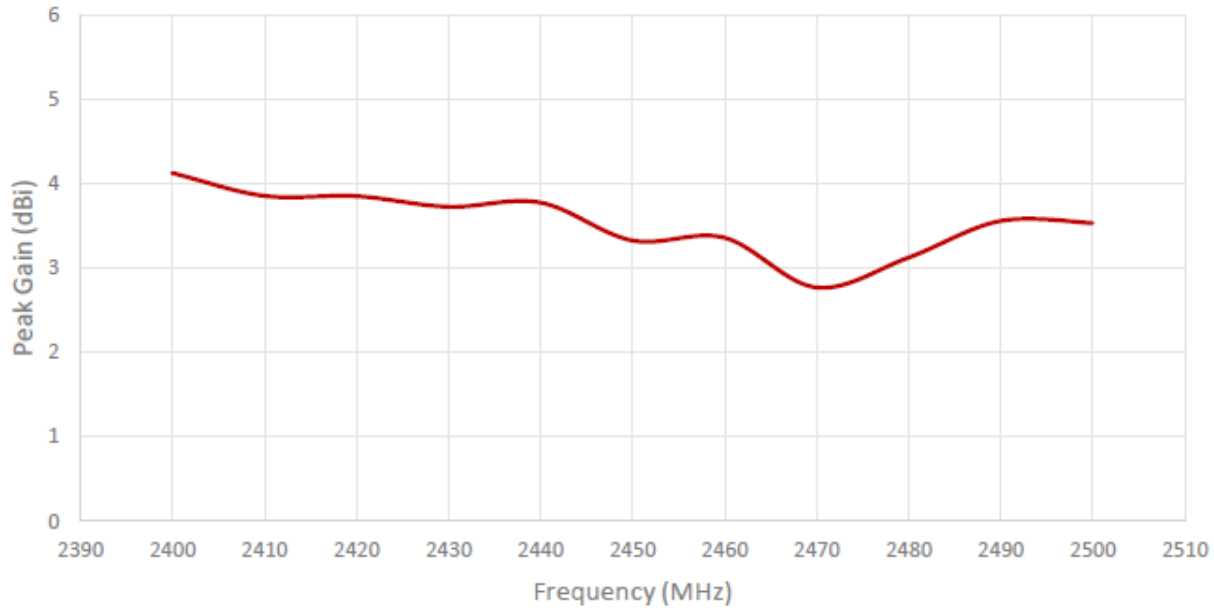


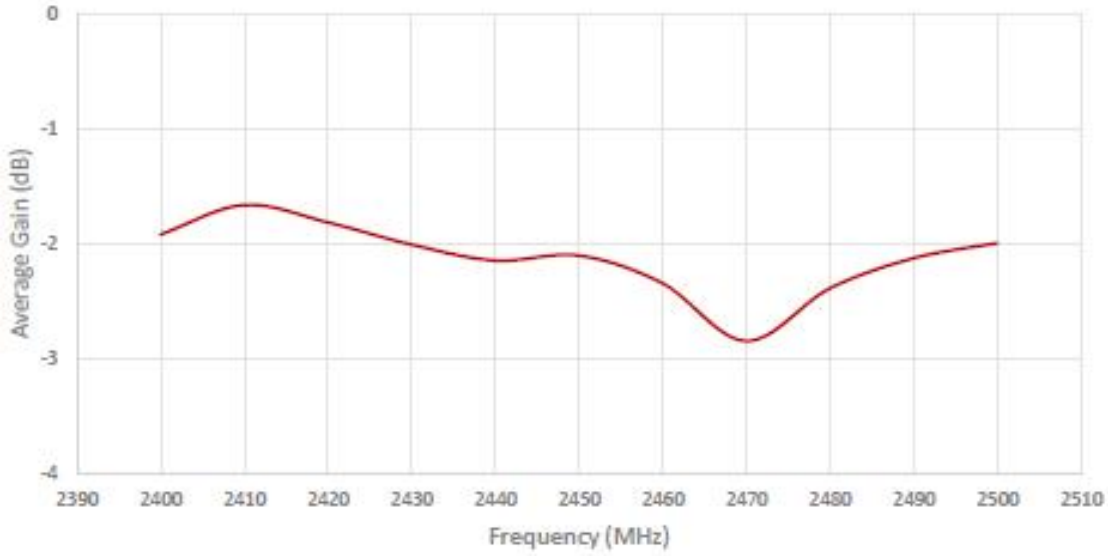
4. Antenna parameters

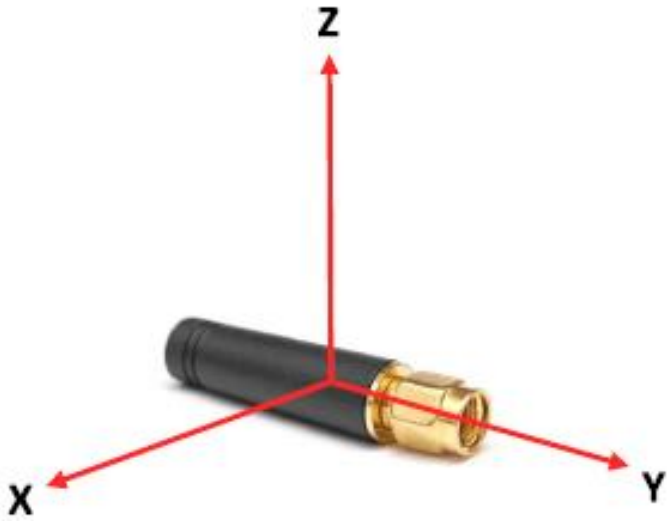




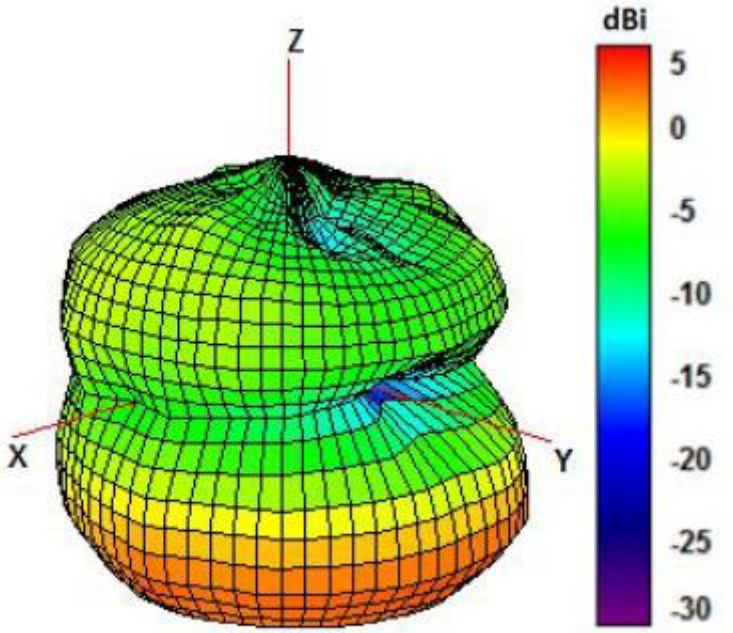

80
70
60
50
40
30
20
10
0
Efficiency (%)
2390
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
2510
Frequency (MHz)


6
5
4
3
2
1
0
Peak Gain (dBi)
2390
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
2510
Frequency (MHz)





Radiation pattern reference



2450 MHz Radiation pattern