antenna conceptor

Product Datasheet

2J7402M

2.4 GHz ISM Magnetic Mount

Key Features

2.4 GHz ISM
- 2410-2490 MHz
Magnetic Mount
Ground Plane Dependent
Customizable Cable and Connector
Dimensions ø 54 × 14.7 mm
Certificates: IP67, IP69K



1. Antenna and electrical specifications

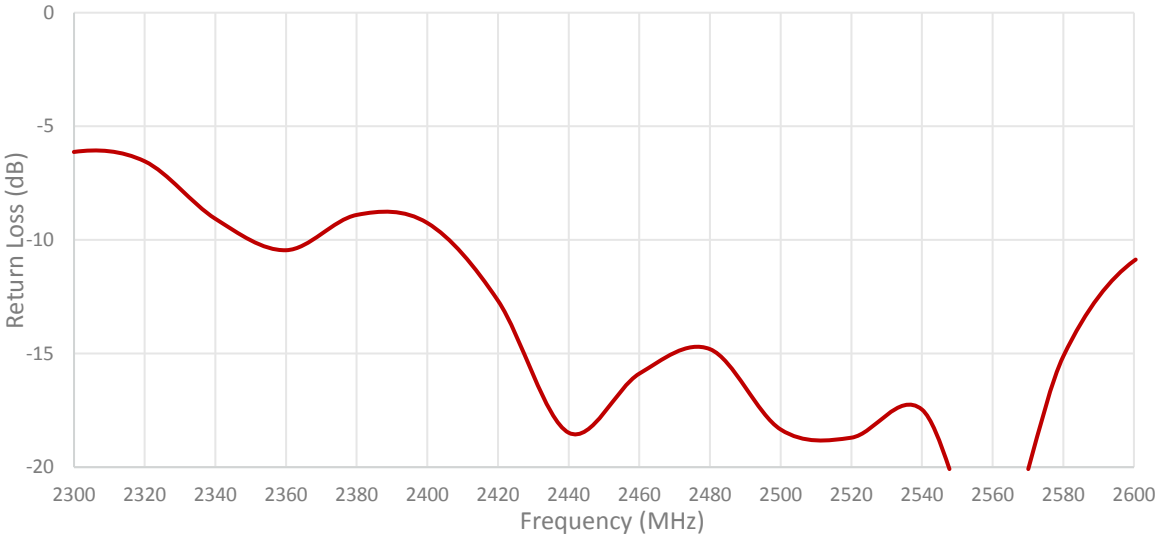
Parameters	2.4 GHz ISM Antenna
Standards	WiFi, BT, ZigBee, ISM
Band (MHz)	2.4 GHz
Frequency (MHz)	2410-2490
Return Loss (dB)	~-15.5
VSWR	~1.4:1
Efficiency (%)	~56.5
Peak Gain (dBi)	~3.8
Average Gain (dB)	~-2.5
Impendance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	SMA-Male Standard (Other Connectors Available)
Cable Length	300 cm Standard (Any Cable Length Available)
Cable Type	LMR100 Standard (Other Cables Available)

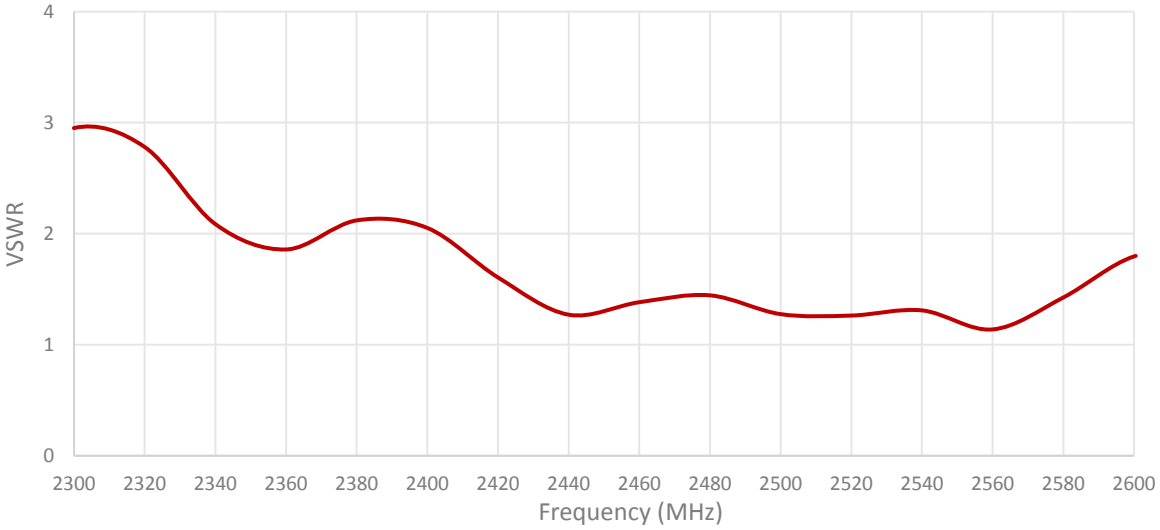
Antenna Measurement Conditions:
Mounted on 30 x 30 cm Metal Plate
100 cm of LMR100 Cable
Measured in Certified CTIA 3D Anechoic Chamber

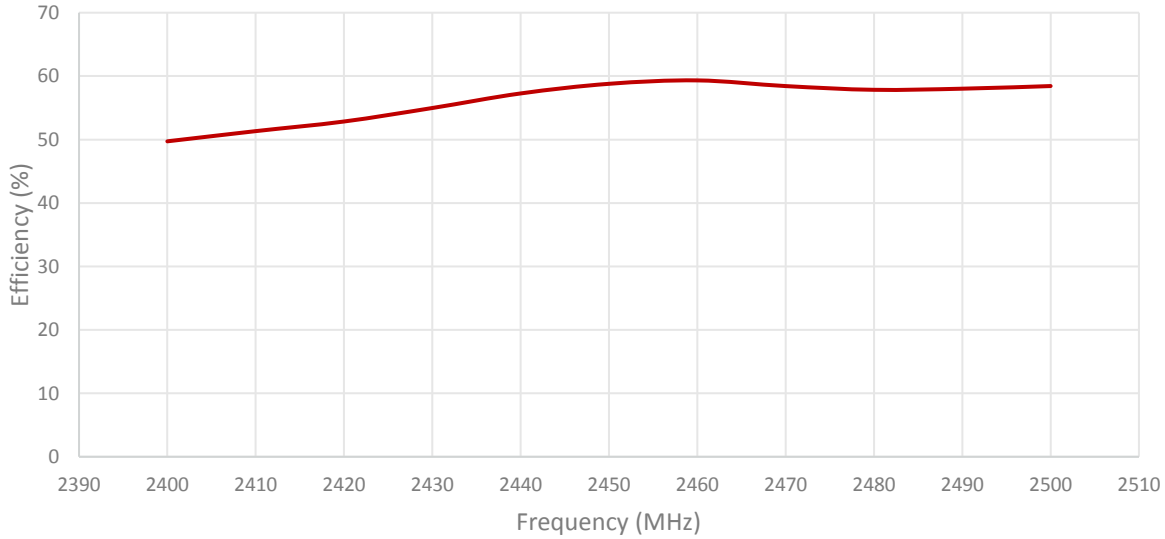
2. Mechanical and environmental specifications

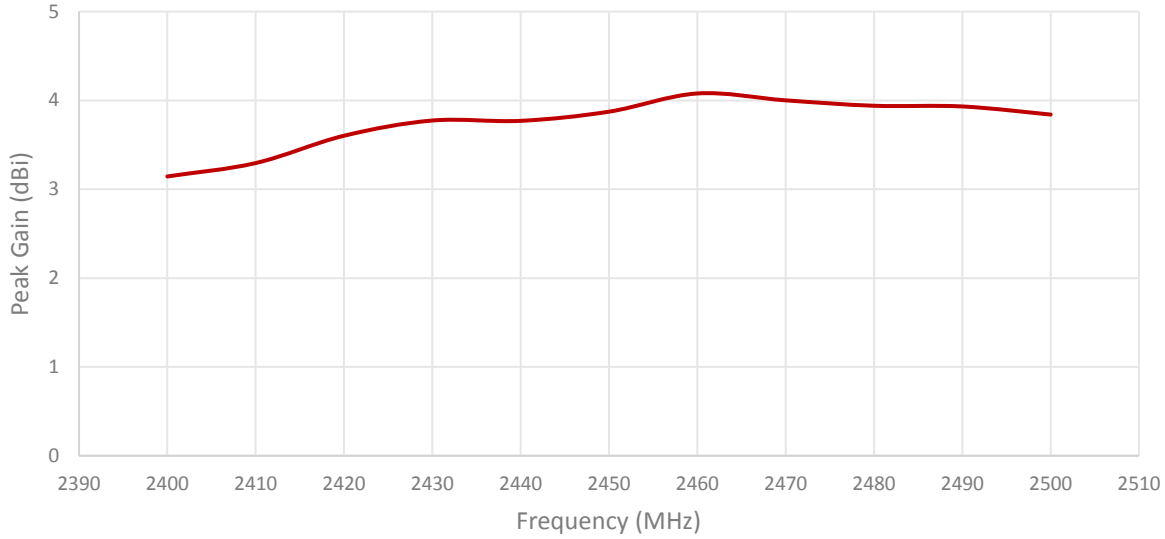
Specifications	2J7402M
Mounting Type	Magnetic Mount
Dimensions (mm)	Ø 54 × 14.7
Radome	PC+ASA
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69K

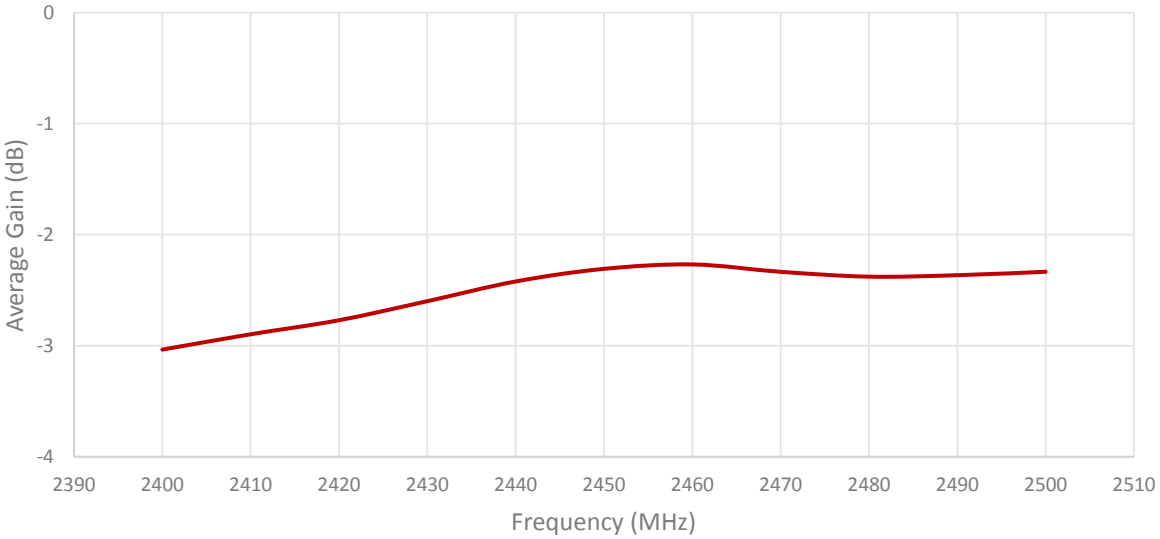
3. Antenna parameters

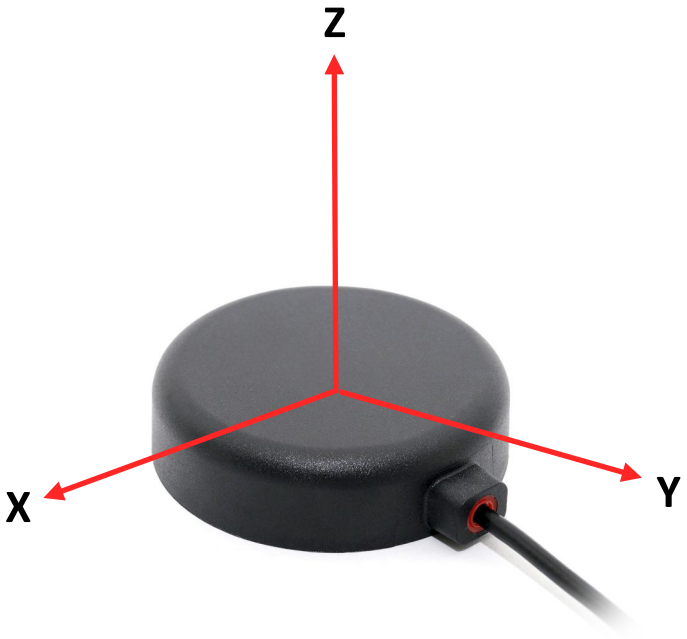




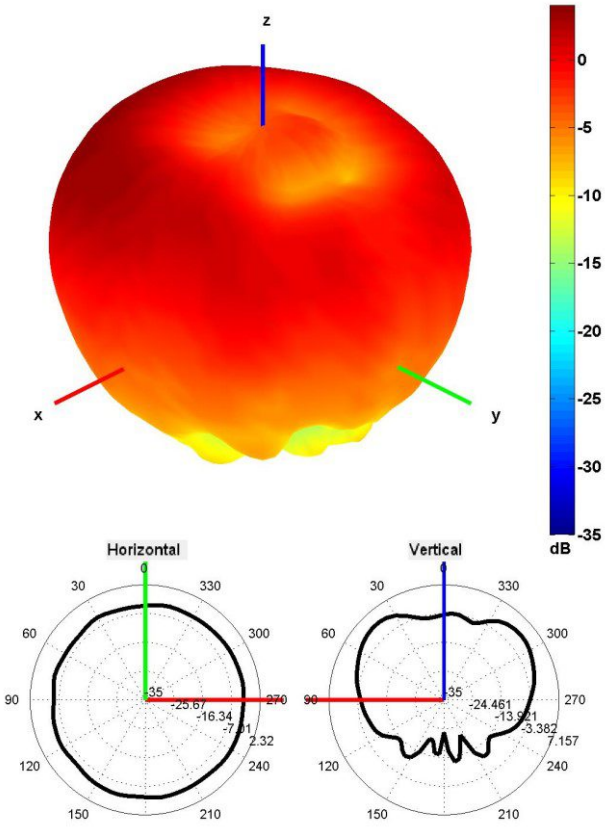

70
60
50
40
30
20
10
0
Efficiency (%)
2390
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
2510
Frequency (MHz)


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



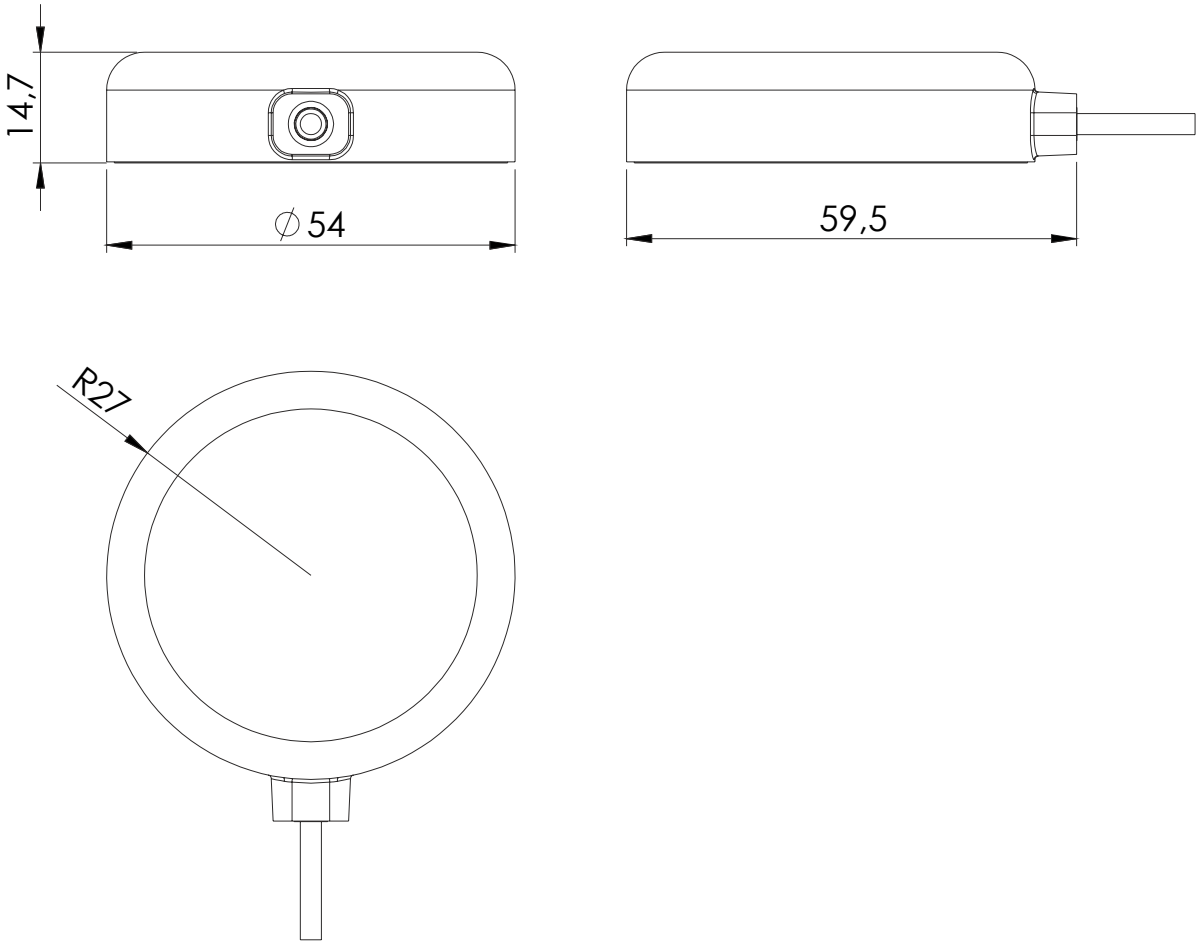


Radiation pattern reference



2450 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

