antenna conceptor

Product Datasheet

2J7515M-868

868 MHz ISM Magnetic Mount

Key Features

868 MHz ISM
- 863-870 MHZ
Magnetic Mount
High Performance
Ground Plane Dependent
Customizable Cable and Connector
Dimensions ø 54 x 80 mm
Certificates IP67, IP69



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1. Antenna and electrical specifications

Parameters	868 MHz ISM Antenna
Standards	ZigBee, ISM, SIGFOX, LoRa
Band (MHz)	868 MHz
Frequency (MHz)	863-870
Return Loss (dB)	~-30
VSWR	~1.1:1
Efficiency (%)	~71
Peak Gain (dBi)	~2.5
Average Gain (dB)	~-1.4
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	D302 Standard (Other Cables Available)

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Metal Plate

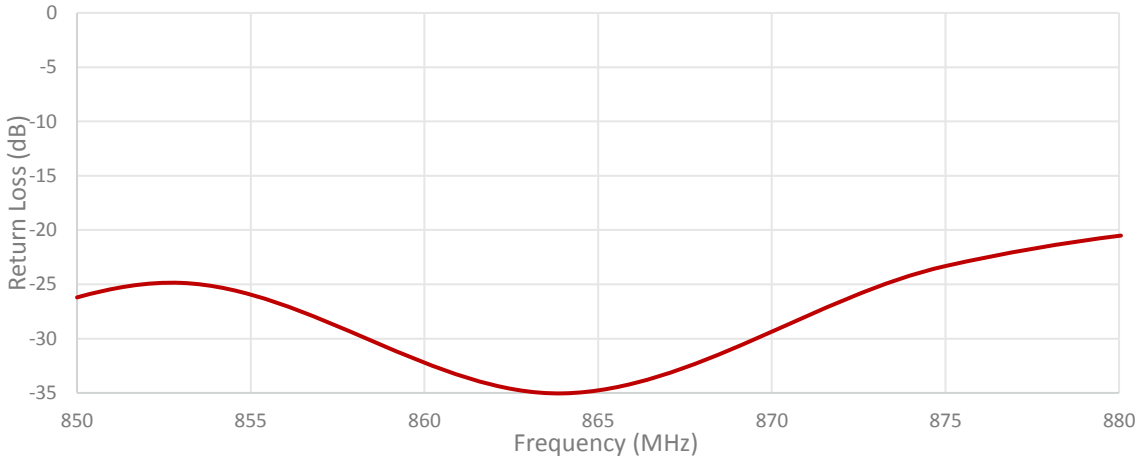
200 cm of D302

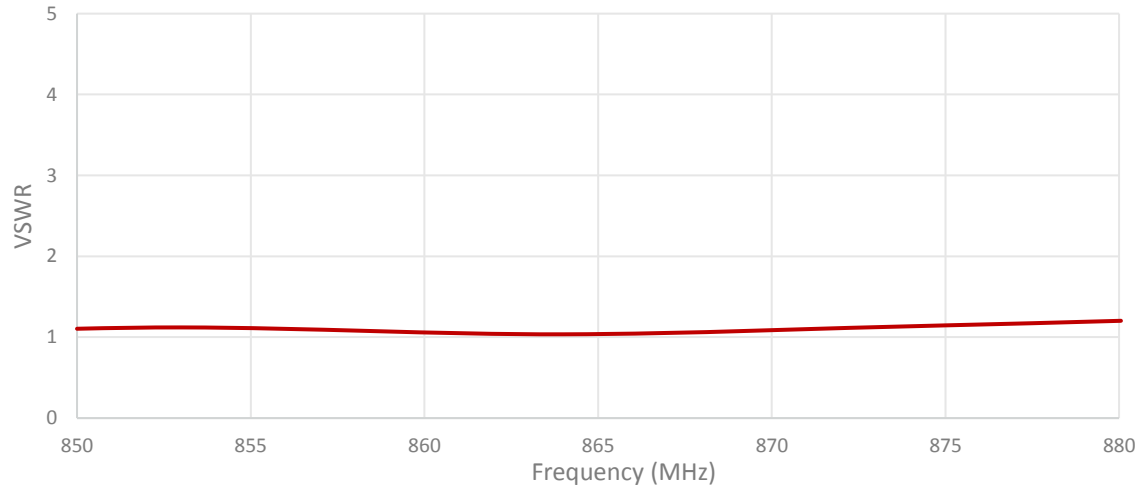
Measured in Certified CTIA 3D Anechoic Chamber

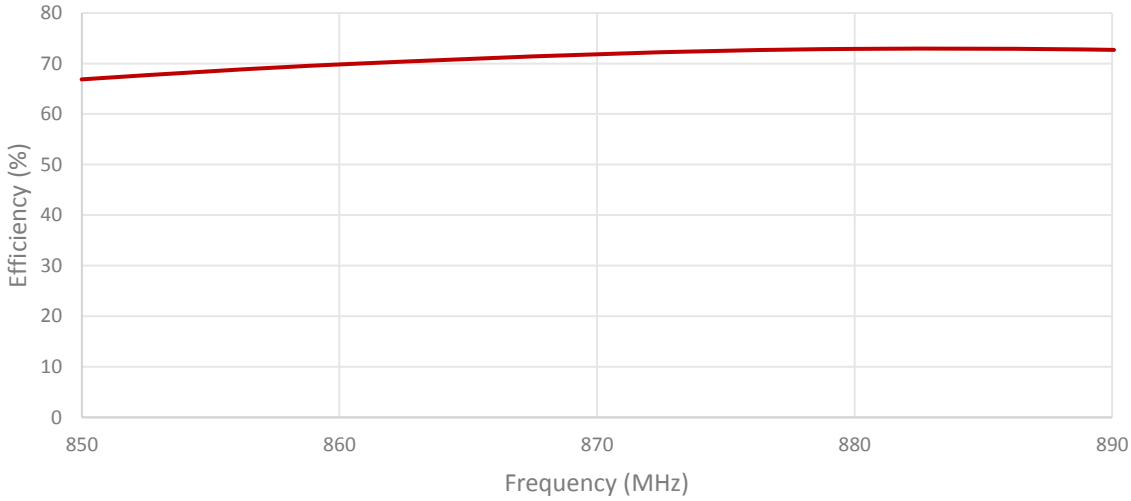
2. Mechanical and environmental specifications

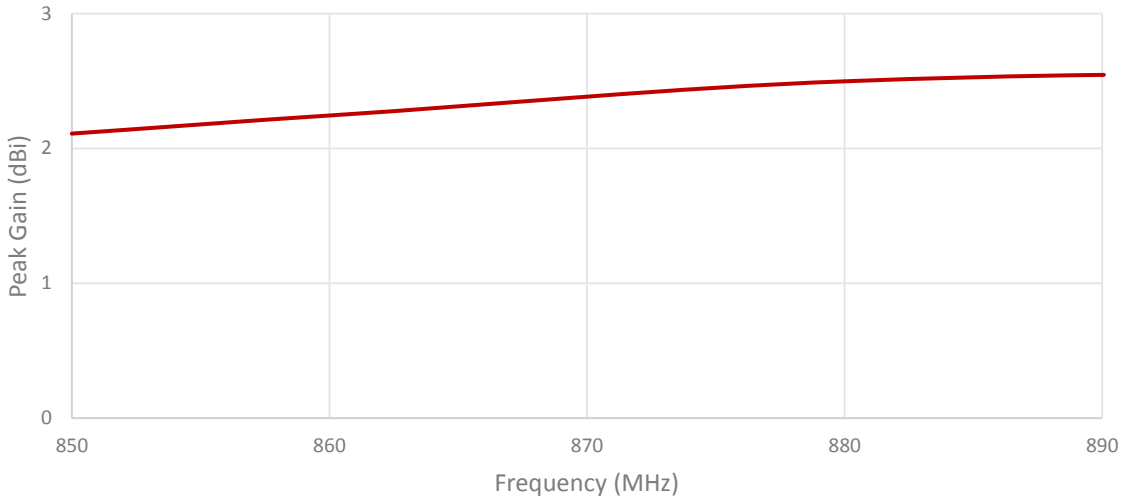
Specifications	2J7515M-868
Mounting Type	Magnetic Mount
Dimensions (mm)	Ø 54 × 80
Radome	ASA
Radome color	Black
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

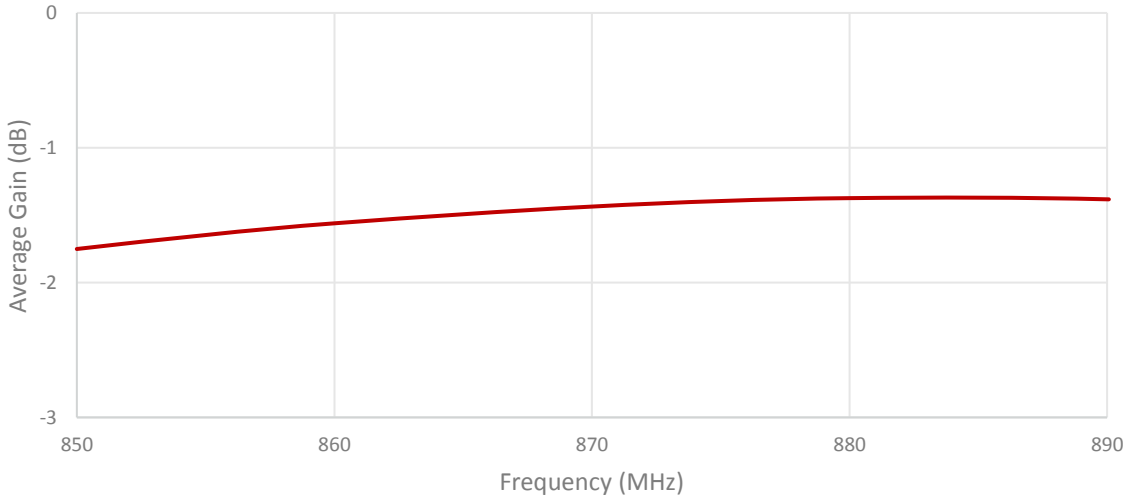
3. Antenna parameters

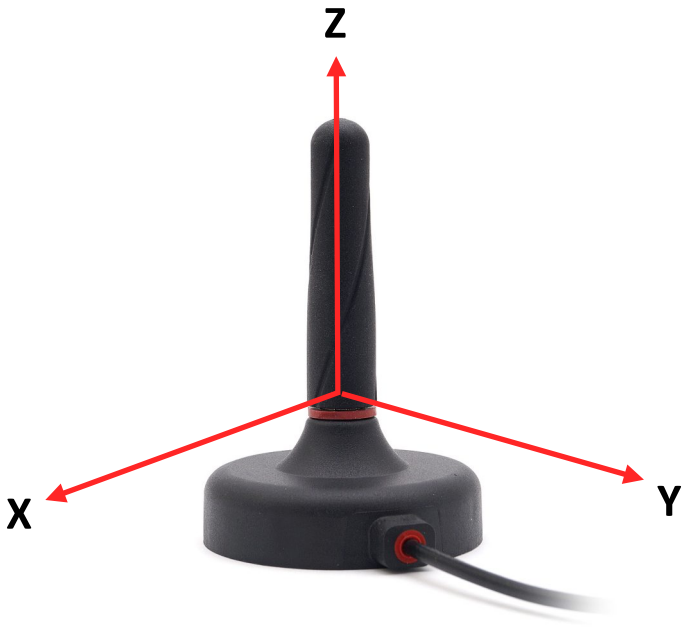




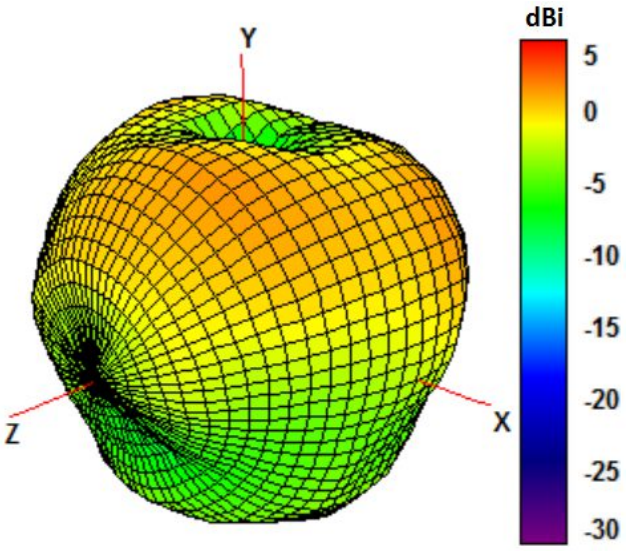

80
70
60
50
40
30
20
10
0
Efficiency (%)
850
860
870
880
890
Frequency (MHz)


3
2
1
0
Peak Gain (dBi)
850
860
870
880
890
Frequency (MHz)



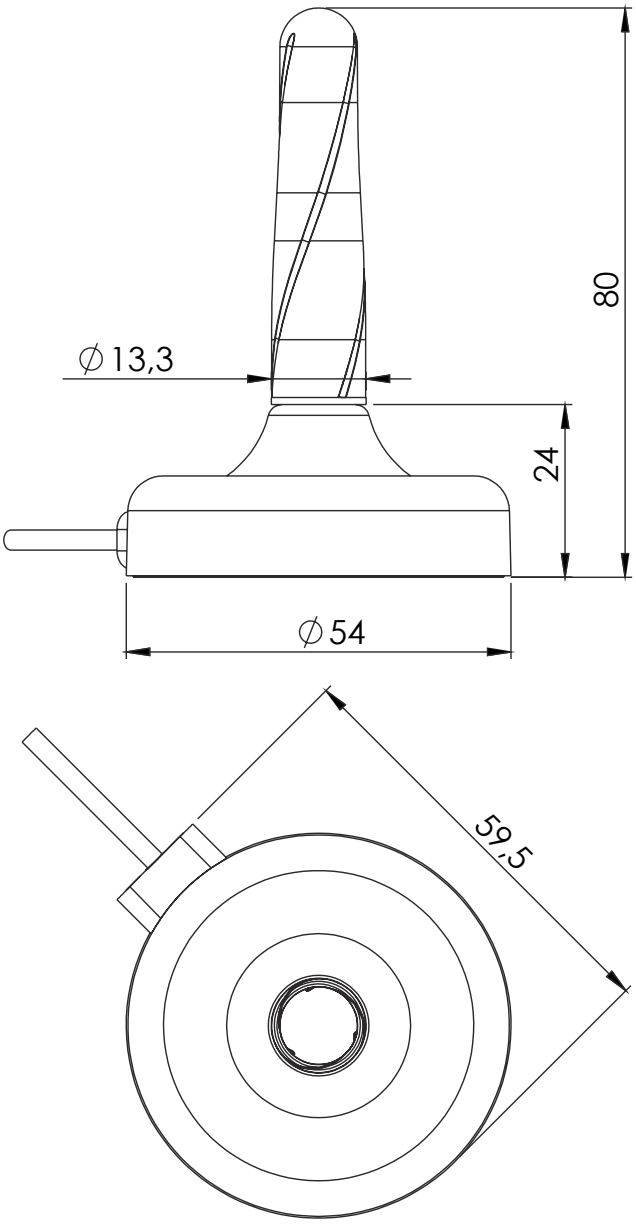


Radiation pattern reference



868 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

