antenna conceptor

Product Datasheet

2J7239M-915

915 MHz ISM and GPS/GLONASS Magnetic Mount



Key Features

Cable 1: 915 MHz ISM
- 902-928 MHz

Cable 2: GPS/GLONASS/QZSS/Galileo
- 1575-1610 MHz

Magnetic Mount
High Performance
Ground Plane Dependent
Customizable Cable and Connector
Dimensions 54 x 95.4 mm

1. Antenna and electrical specifications

Cable 1

Parameters	915 MHz ISM Antenna
Standards	ZigBee, ISM, SIGFOX, LoRa
Band (MHz)	915 MHz
Frequency (MHz)	902-928
Return Loss (dB)	~-19.1
VSWR	~1.2:1
Efficiency (%)	~46
Peak Gain (dBi)	~2.0
Average Gain (dB)	~-3.4
Impendance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	SMA-Male Standard

Cable 2

Parameters	GPS/GLONASS Antenna	
Standard	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency(MHz)	1575.42	1598-1610
Return Loss (dB)	<-20	
VSWR	<1.2:1	
Impedance	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter		
Active Gain (dB)	26 @ 3V / 27dB @ 5V	
Noise Figure (dB)	1.5	
Voltage (V)	2.7 – 5.5	
Current (mA)	15 - 25	
Power Consumption (mW)	40 - 137	
Connector Type	Most RF Connectors (SMA-Male Standard)	
Cable Length	Any Cable Length (200cm Standard)	
Cable Type	Other Cables Available (RG174 Standard)	

Antenna Measurement Conditions:

Mounted on 30x30xm Metal Plate

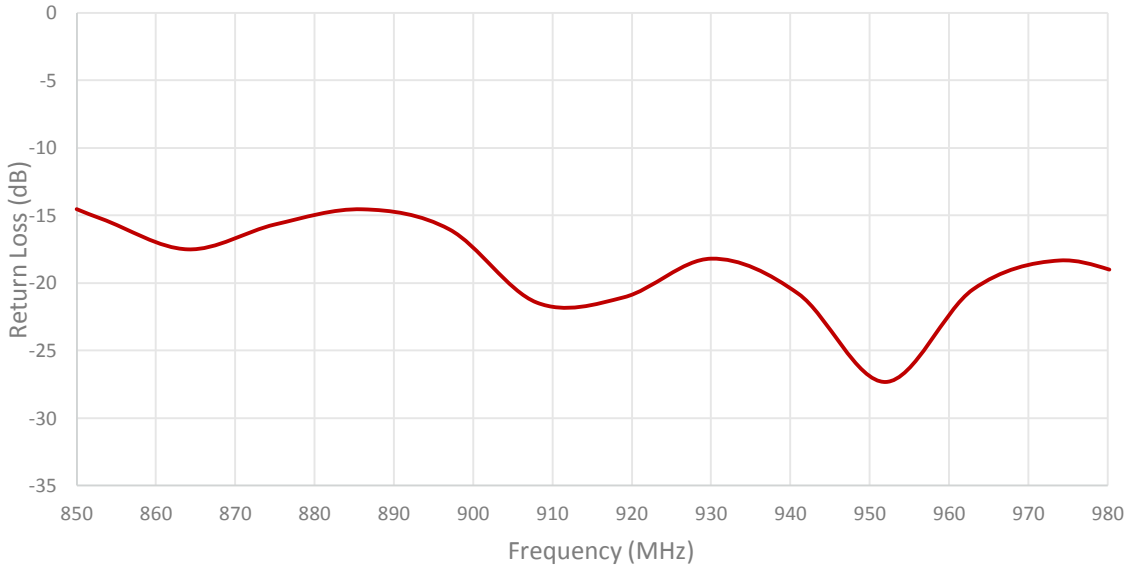
200 cm Cable Length RG174

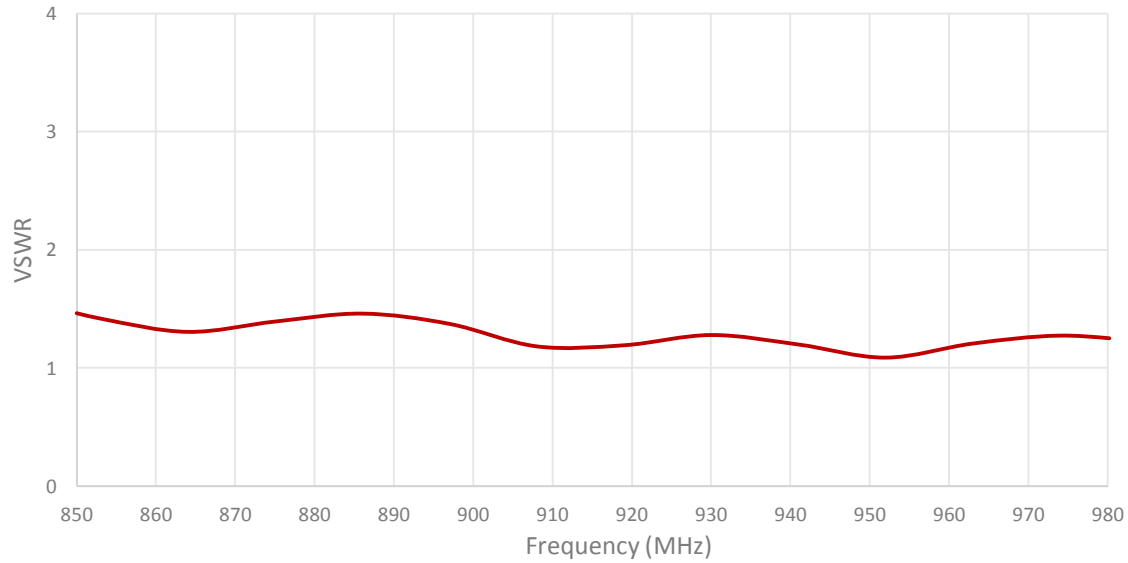
Measured in Certified CTIA 3D Anechoic Chamber

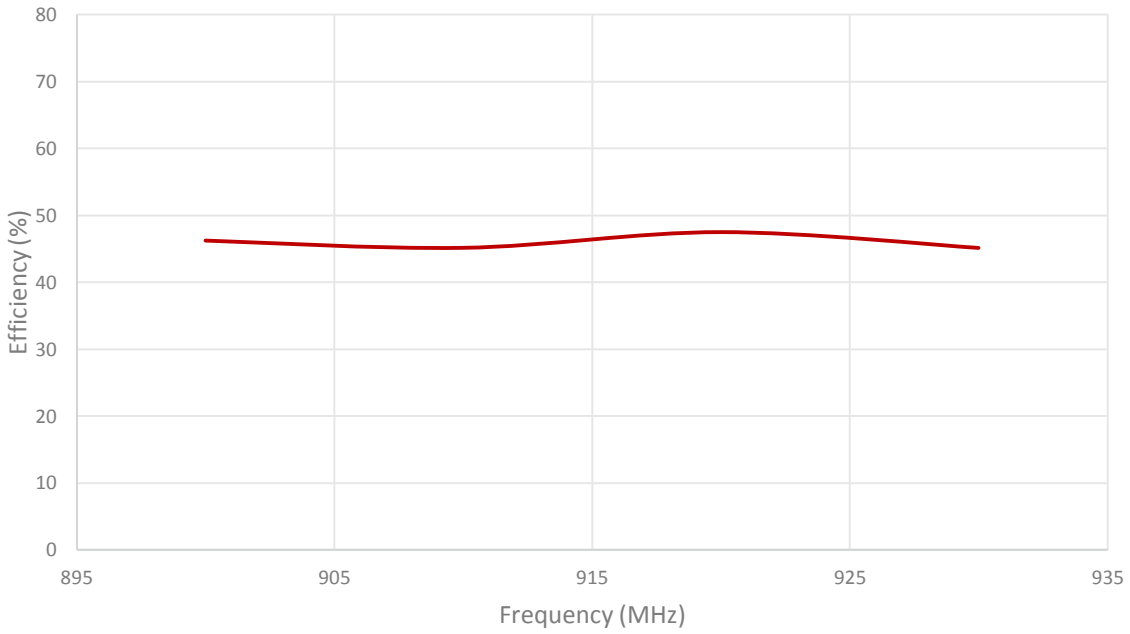
2. Mechanical and environmental specifications

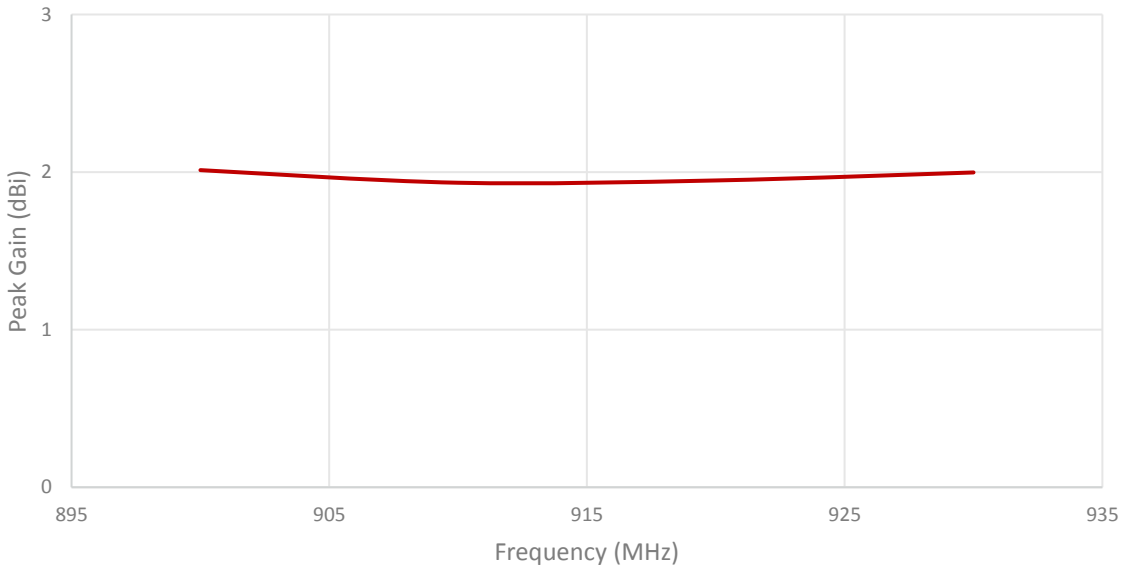
Specifications	2J7239M-915
Mounting Type	Magnetic Mount
Dimensions (mm)	54 × 95.4
Radome	ABS UV Stable
Radome color	Black
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

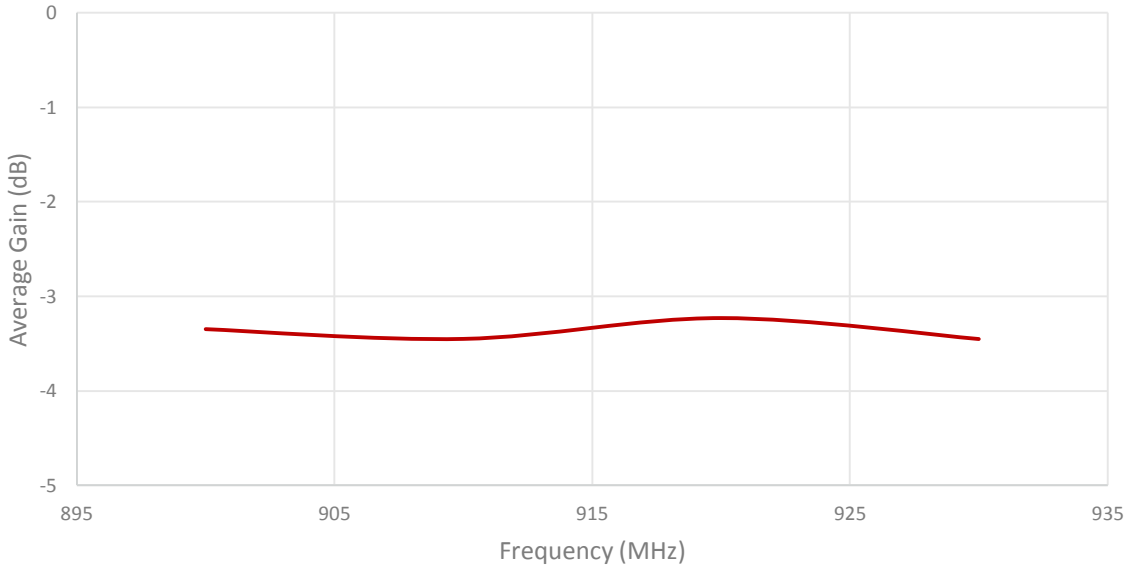
3. Antenna parameters

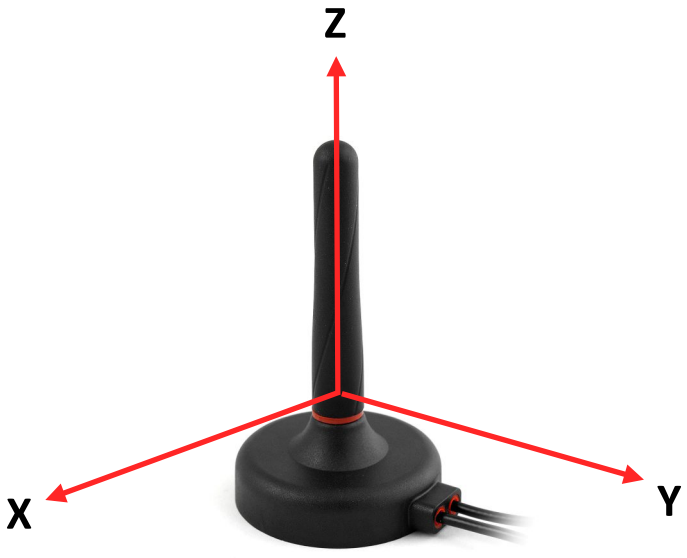




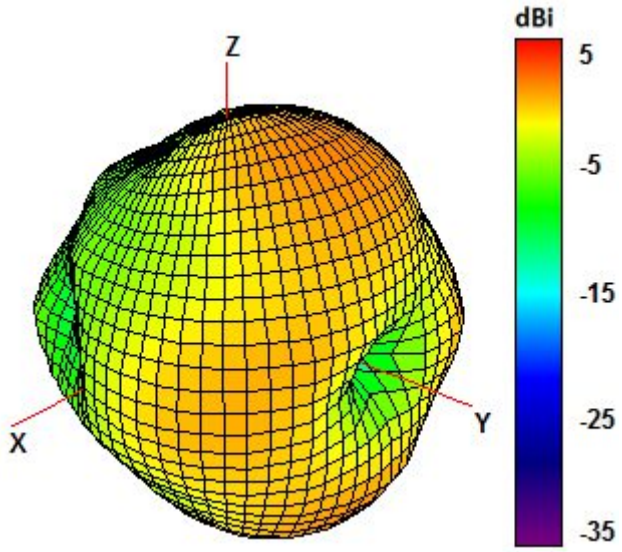

80
70
60
50
40
30
20
10
0
Efficiency (%)
895
905
915
925
935
Frequency (MHz)


3
2
1
0
Peak Gain (dBi)
895
905
915
925
935
Frequency (MHz)



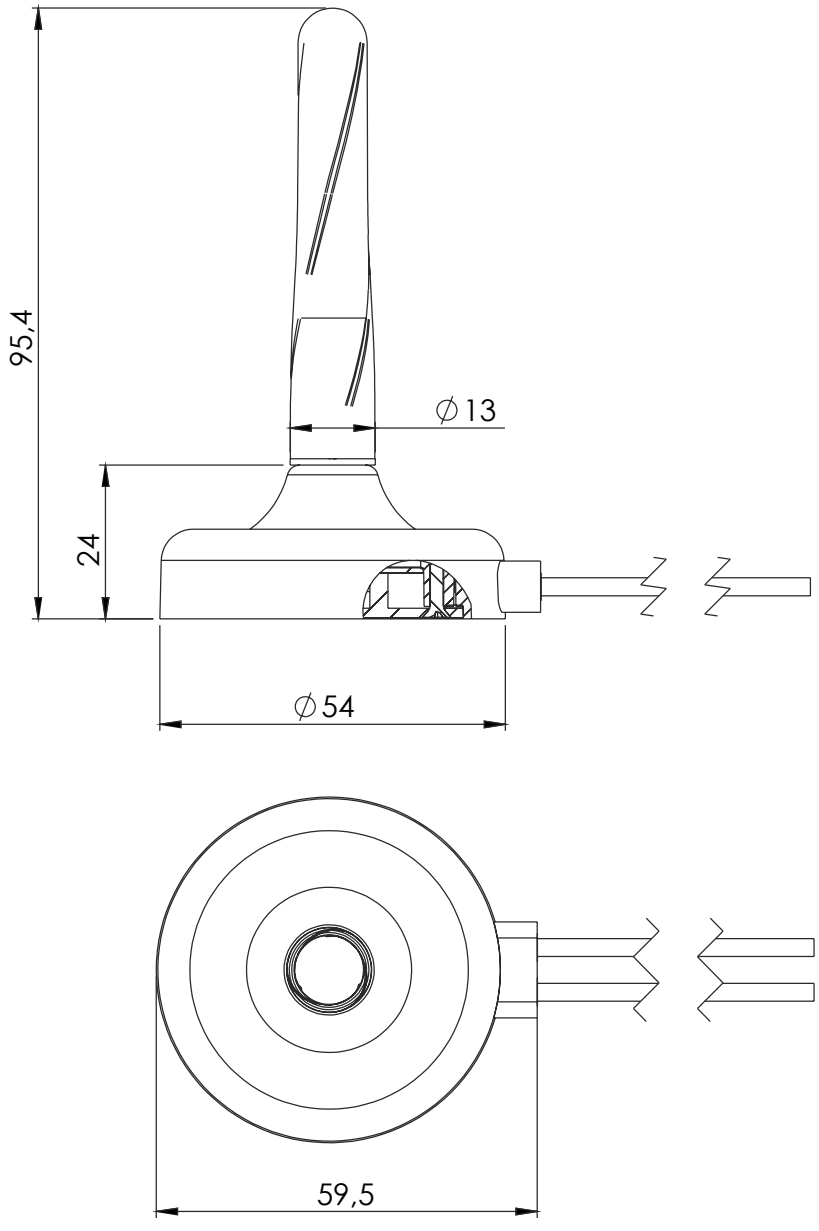


Radiation pattern reference



915 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

