antenna conceptor

Product Datasheet

2J2115B-868-B05H

868 MHz ISM Wall Mount



Key Features

868 MHz ISM
- 863-870 MHz
Wall Mount
High Performance
Ground Plane Independent
Customized Cable and Connector
Dimensions 325 × 36 × 155 (220 × Ø 16) mm
Certificates: IP67

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)	~-13.6
VSWR	~1.5:1
Efficiency (%)	~65.2
Peak Gain (dBi)	~3.2
Average Gain (dB)	~-1.9
Impendance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	Most RF Connectors (SMA-Male Standard)
Cable Length	Any Cable Length (300cm Standard)
Cable Type	Other Cables Available (RG58 Standard)

Antenna Measurement Conditions:

Free Space

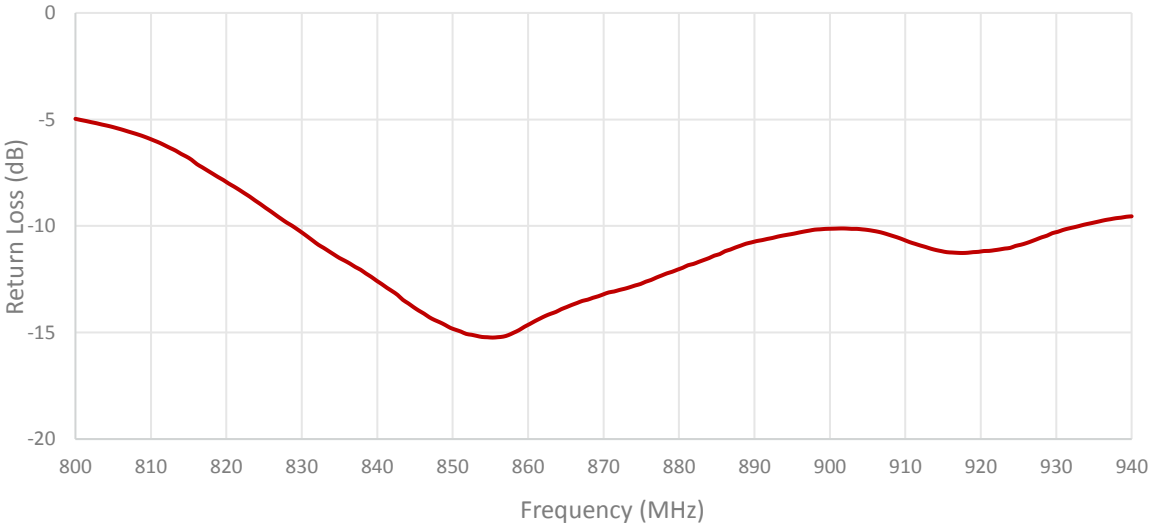
200 cm RG58 Cable

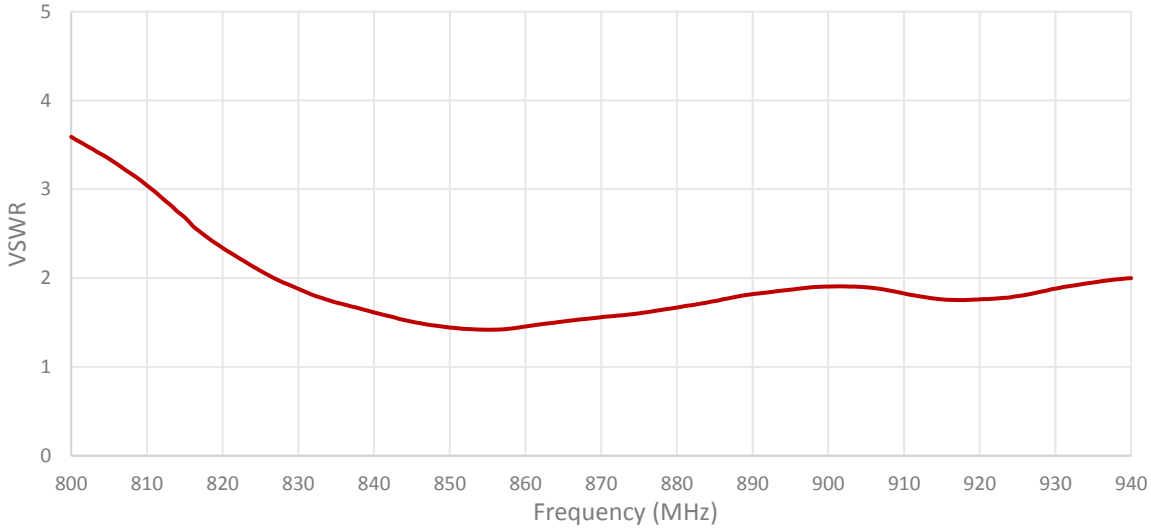
Measured in Certified CTIA 3D Anechoic Chamber

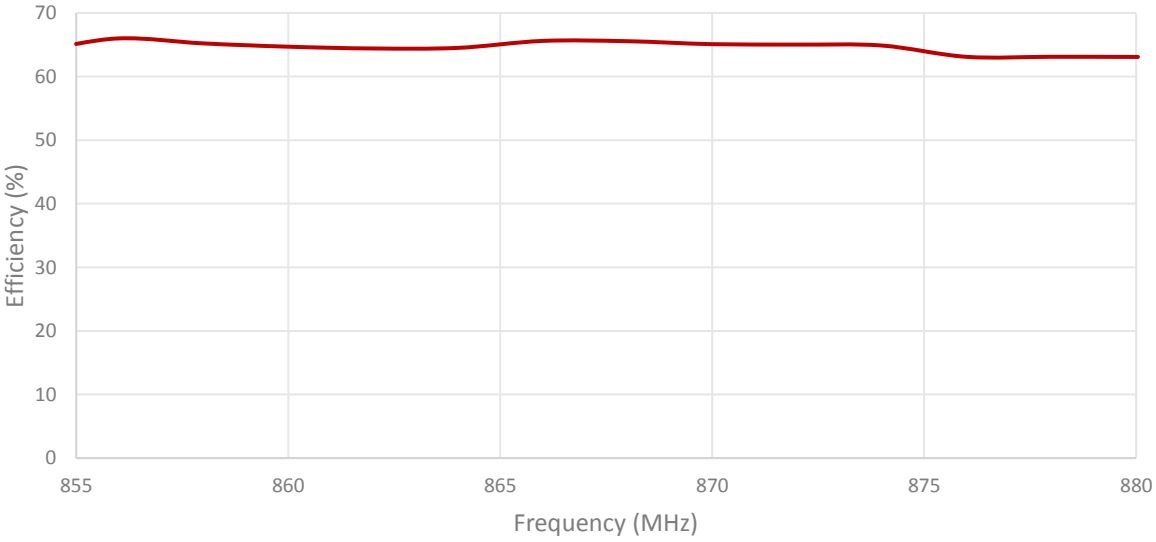
2. Mechanical and environmental specifications

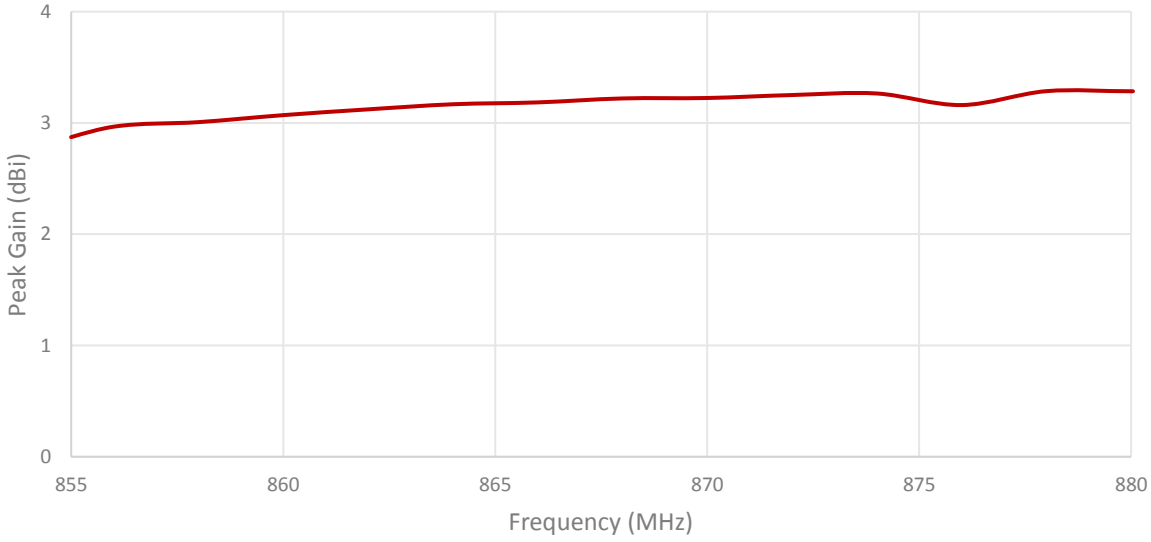
Specifications	2J2115B-868-B05H
Mounting Type	Wall Mount
Dimensions (mm)	325 × 36 × 155 (220 × Ø 16)
Radome	PC/ABS UV Stable
Radome color	Black
Antenna Base	Brass
Bracket	Stainless Steel
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

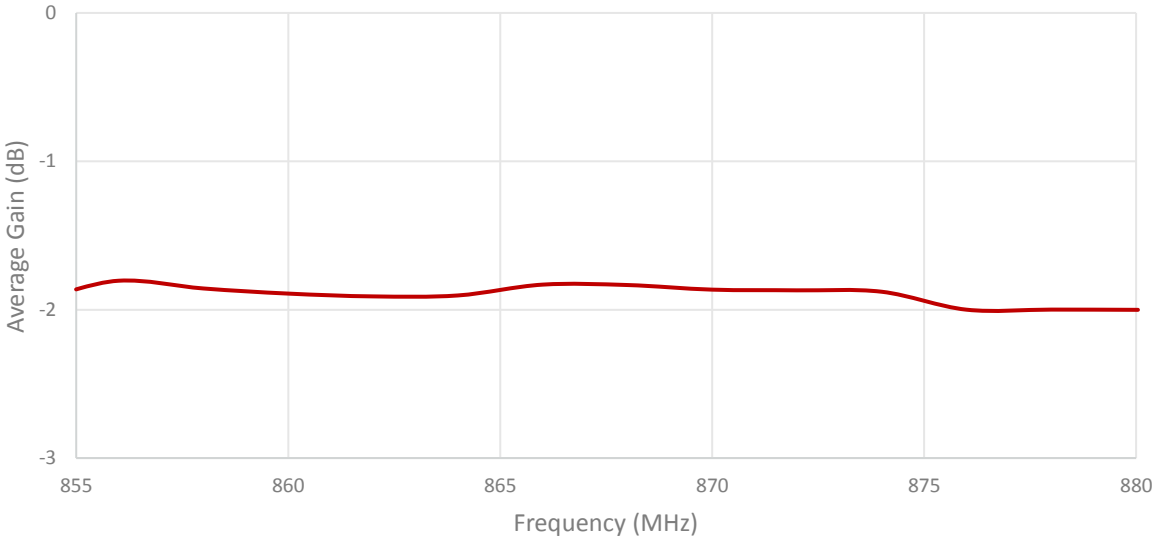
3. Antenna parameters

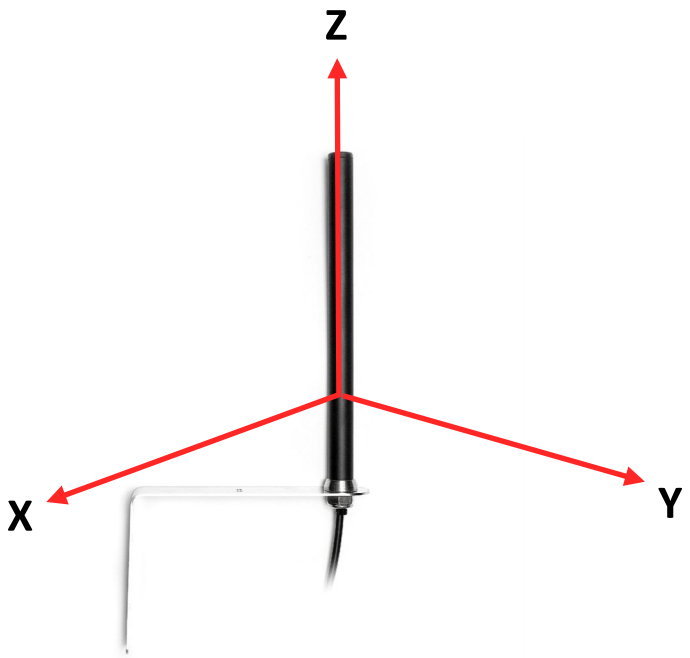




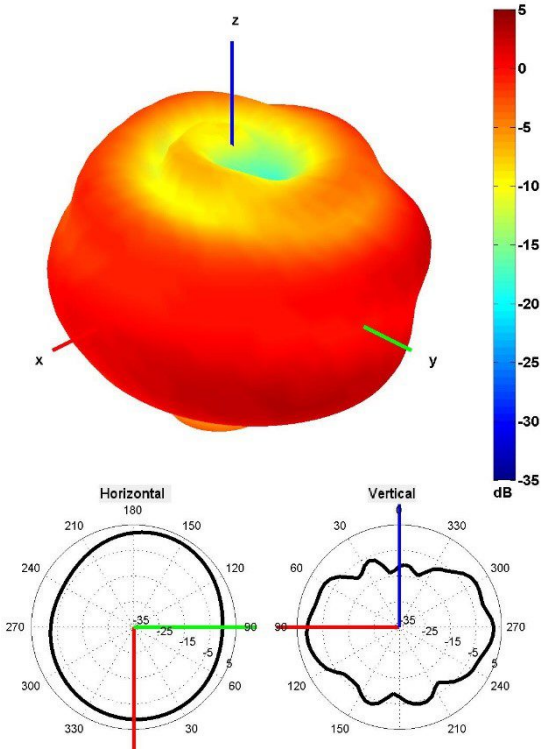

70
60
50
40
30
20
10
0
Efficiency (%)
855
860
865
870
875
880
Frequency (MHz)


4
3
2
1
0
Peak Gain (dBi)
855
860
865
870
875
880
Frequency (MHz)



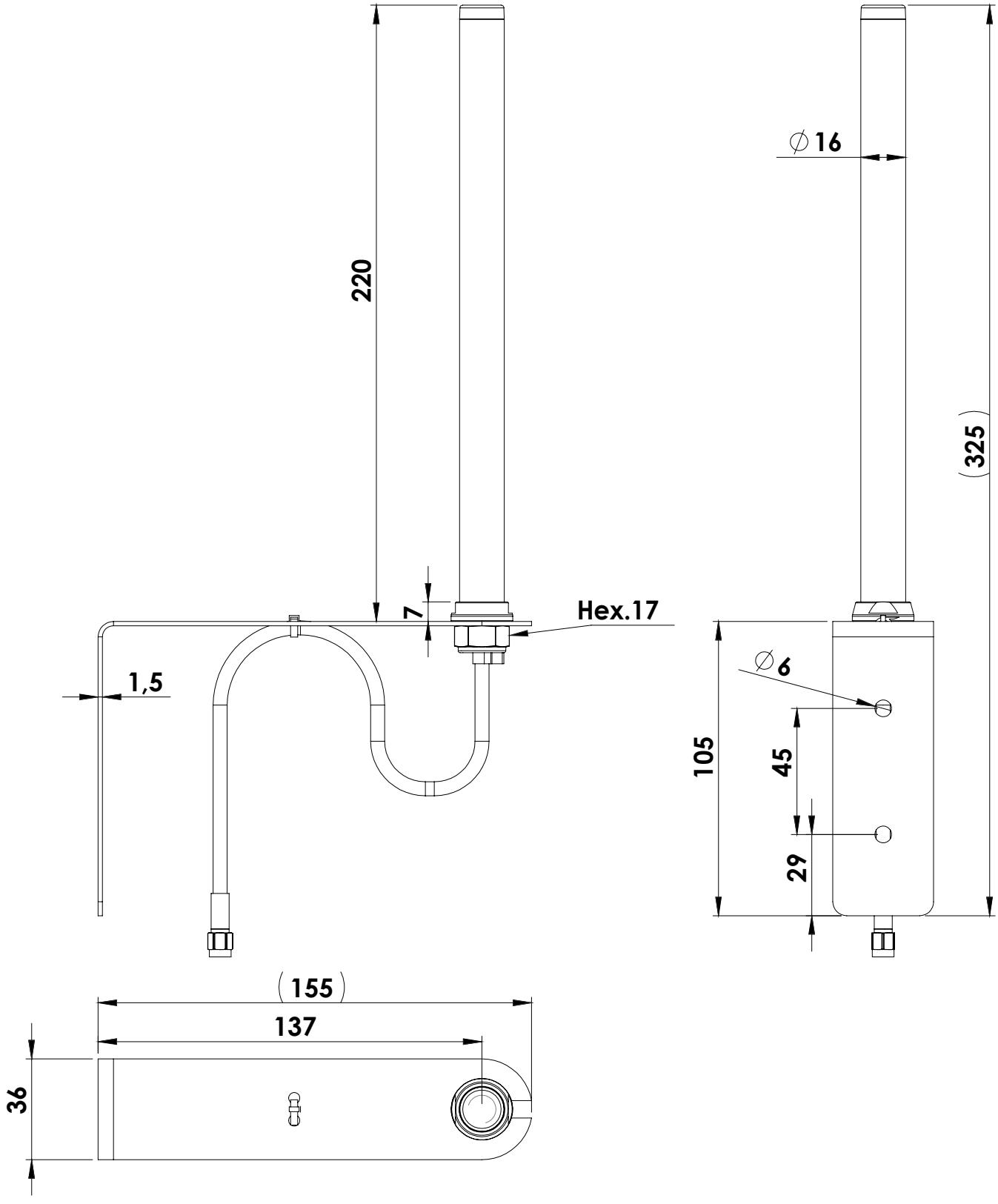


Radiation pattern reference



868 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

