antenna conceptor

Product Datasheet

2JF1115P

868 MHz ISM Flexible Polymer

Key Features

868 MHz ISM
- 863-870 MHZ
Self-Adhesive
Flexible Material
High Performance
Ground Plane Independent
Customized Cable and Connector
Dimensions 40.0 × 7.0 × 0.2 mm

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)	~-14.9
VSWR	~1.4:1
Efficiency (%)	~57.7
Peak Gain (dBi)	~1.8
Average Gain (dB)	~-2.4
Impedance (Ohm)	50
Polarization	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	U.FL Standard (Other Connectors Available)
Cable Length	100mm Standard (Any Cable Length Available)
Cable Type	1.37mm Micro-Coax Standard (Other Cables Available)

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plastic Plate

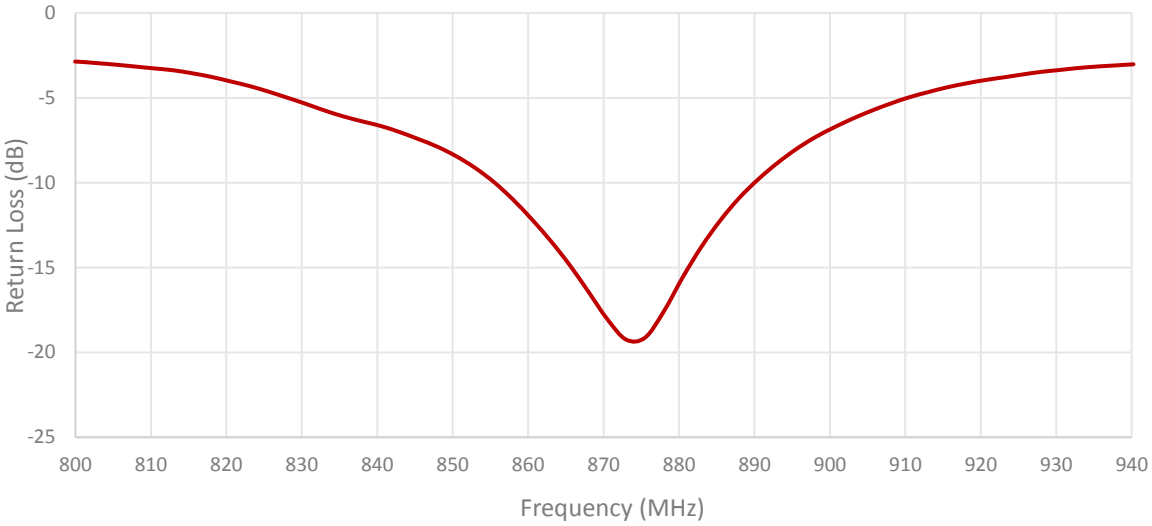
100 mm MC137 mm Micro Coax Cable

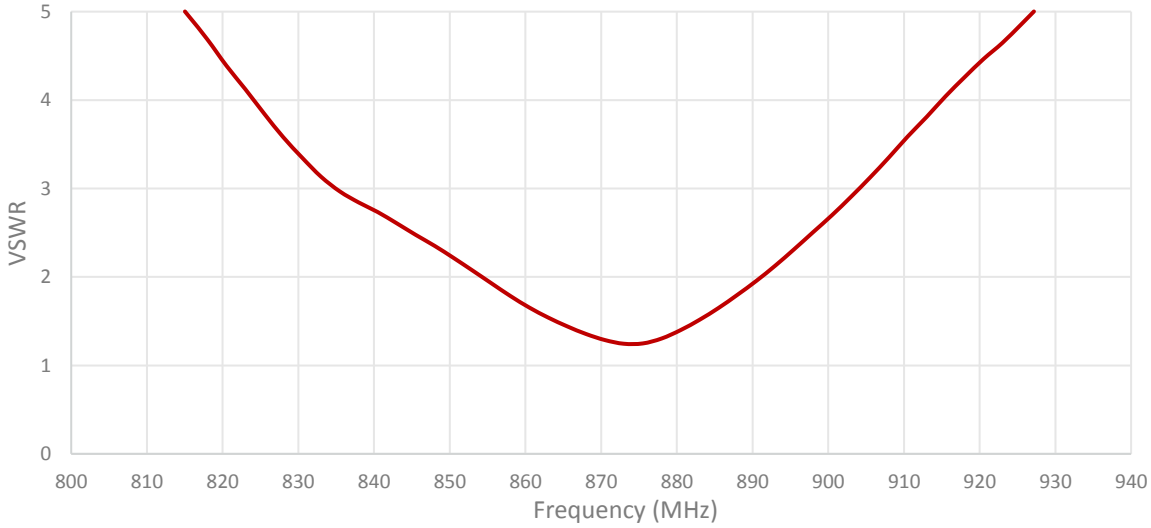
Measured in Certified CTIA 3D Anechoic Chamber

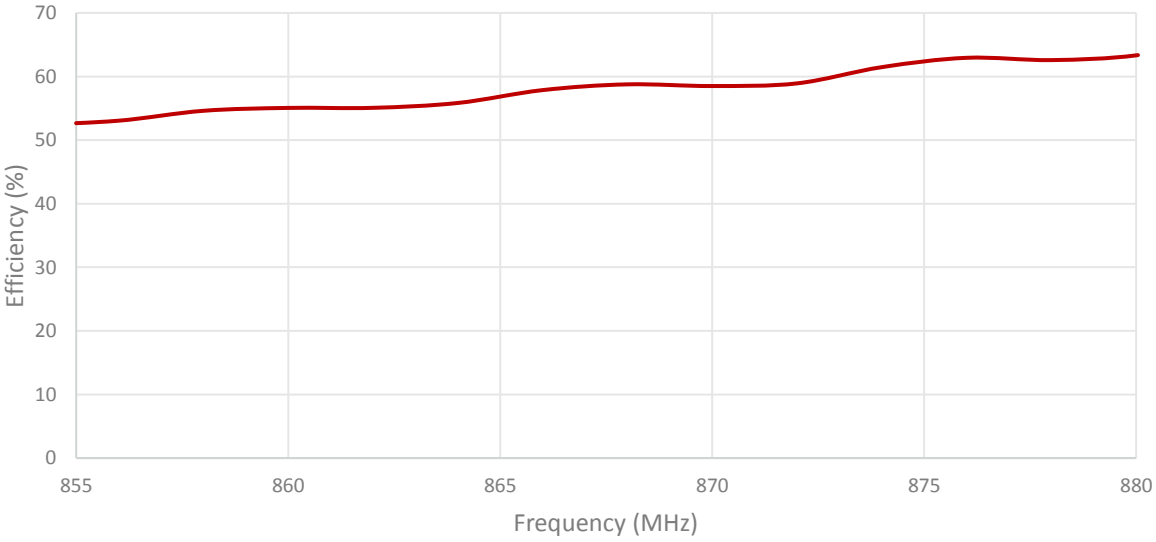
2. Mechanical and environmental specifications

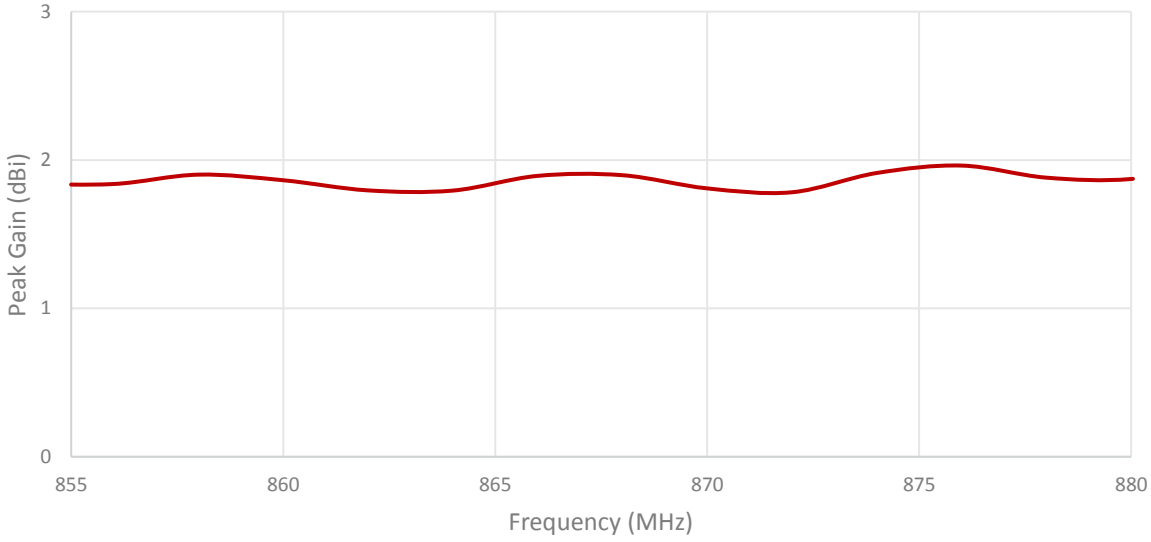
Specifications	2JF1115P
Mounting Type	Self-Adhesive
Dimensions (mm)	40.0 x 7.0 x 0.2
Adhesive Type	3M 467
Material	Flexible Polymer
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

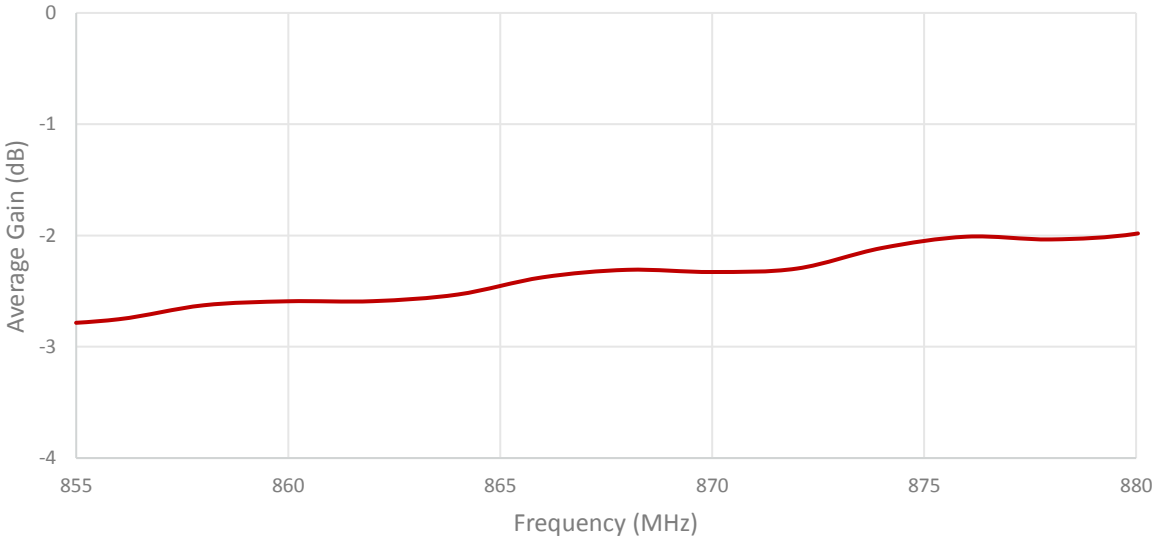
3. Antenna parameters

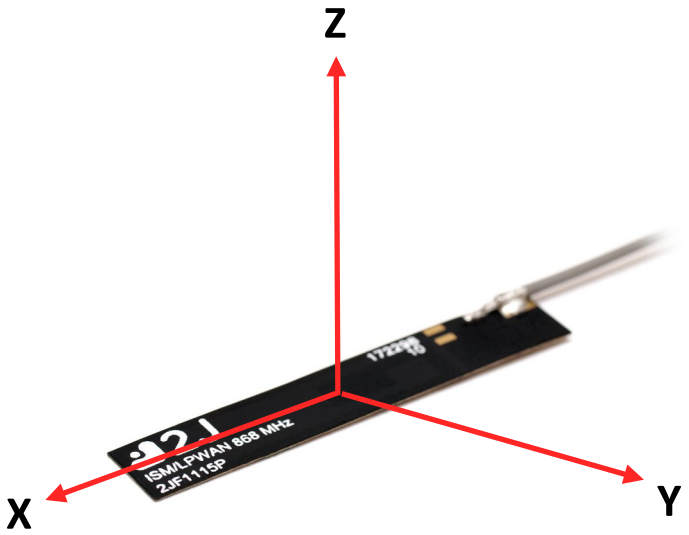




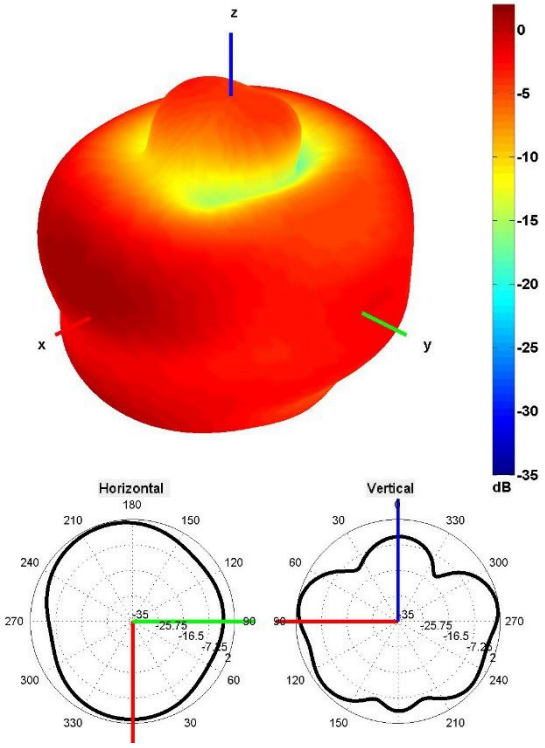

70
60
50
40
30
20
10
0
Efficiency (%)
855
860
865
870
875
880
Frequency (MHz)


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



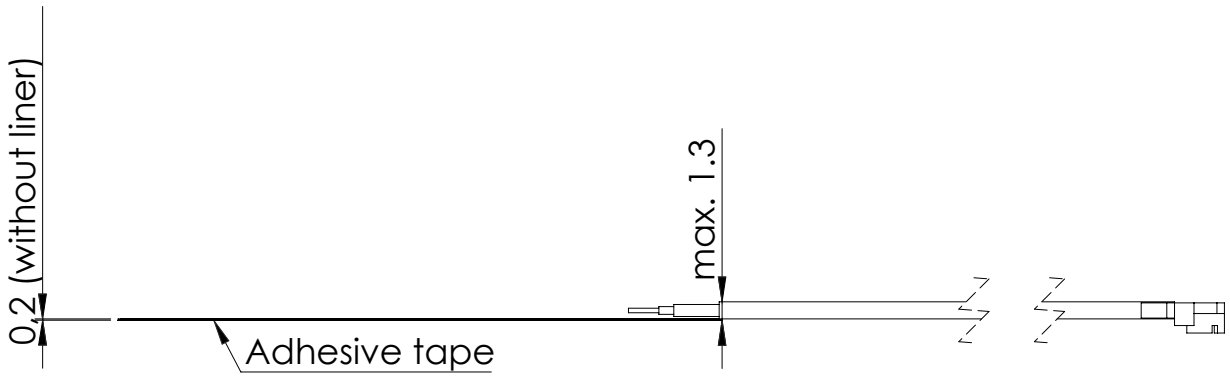


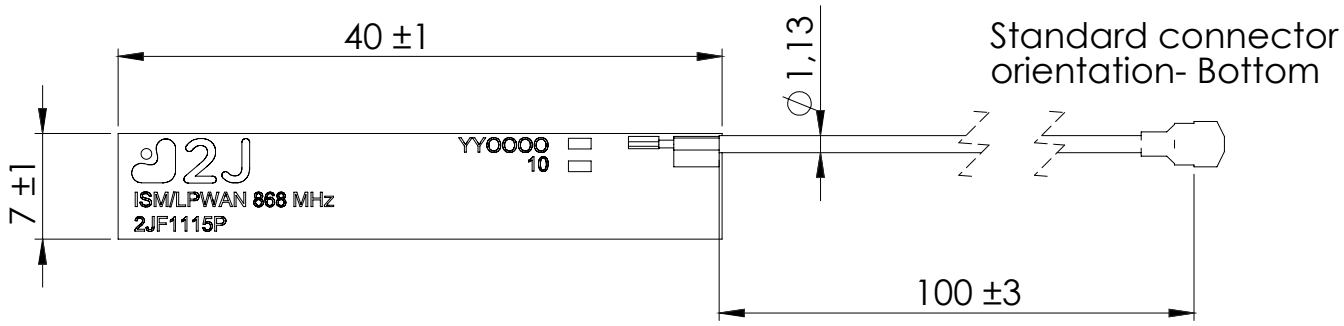
Radiation pattern reference



868 MHz Radiation pattern

4. Antenna drawings





5. Antenna Images