antenna conceptor

Product Datasheet

2J5502VP

2.4/5.0/6.0 GHz ISM Velcro/Adhesive Mount



Key Features

Cable 1: 2.4/5.0/6.0 GHz ISM
- 2410-2490 MHz
- 4920-5925 MHZ
- 5925-7125 MHz

Velcro/Adhesive Mount
Ground Plane Independent
Customizable Cable and Connector
Dimensions 71 × 25 × 7 mm

1. Antenna and electrical specifications

Cable 1

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925	4920-5925
Return Loss (dB)	~-14.3	~-12.1	~-7.4
VSWR	~1.6:1	~1.9:1	~2.6:1
Efficiency (%)	~54.0	~46.0	~26.3
Peak Gain (dBi)	~3.3	~2.0	~-0.3
Average Gain (dB)	~-2.7	~-3.5	~-6.1
Impendance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	RP-SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	LL100 Standard (Other Cables Available)		

Antenna Measurement Conditions:

Mounted on Plastic Plane of 30x30 mm

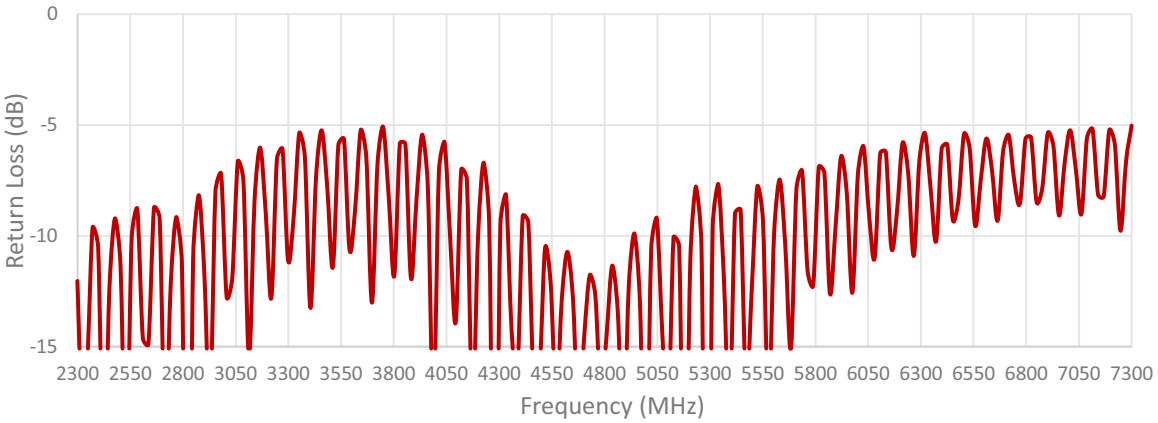
100cm of LL100 Cable

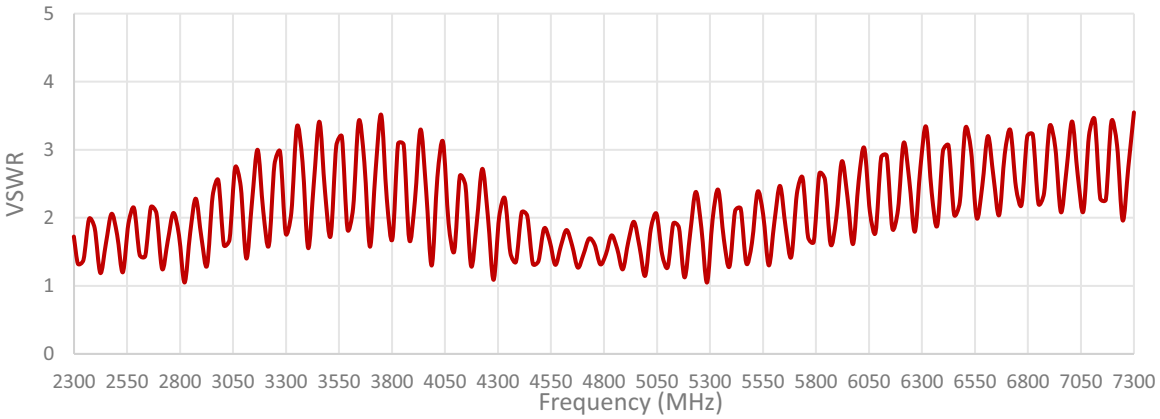
Measured in Certified CTIA 3D Anechoic Chamber

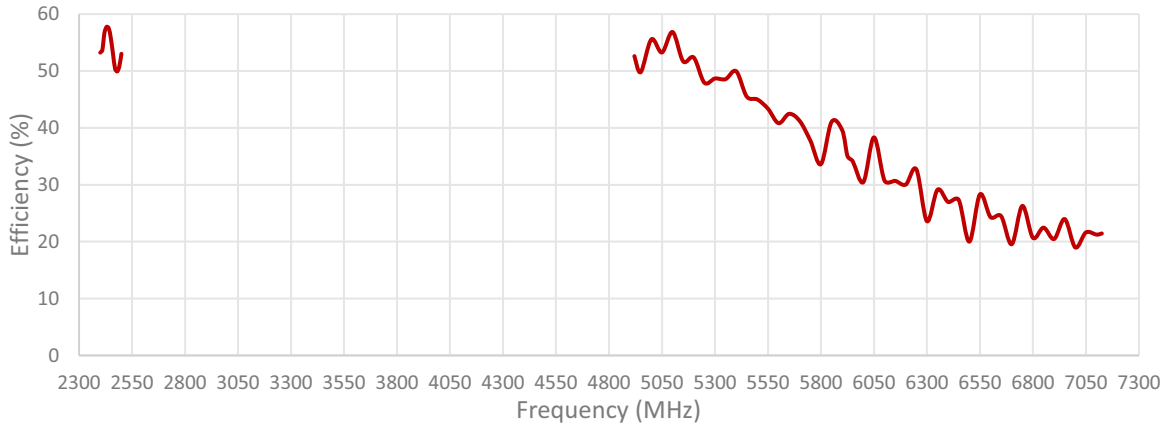
2. Mechanical and environmental specifications

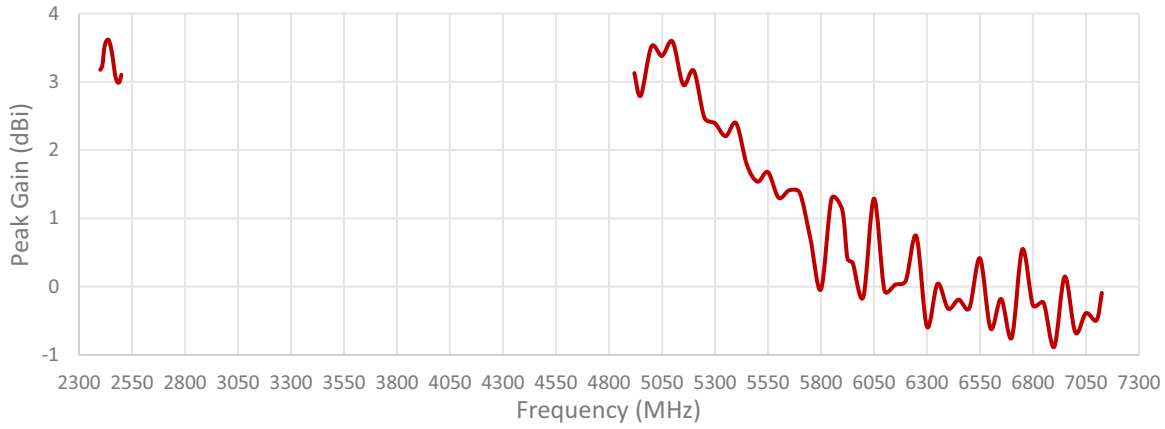
Specifications	2J5502VP
Mounting Type	Velcro/Adhesive Mount
Dimensions (mm)	71 × 25 × 7
Radome	ASA
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

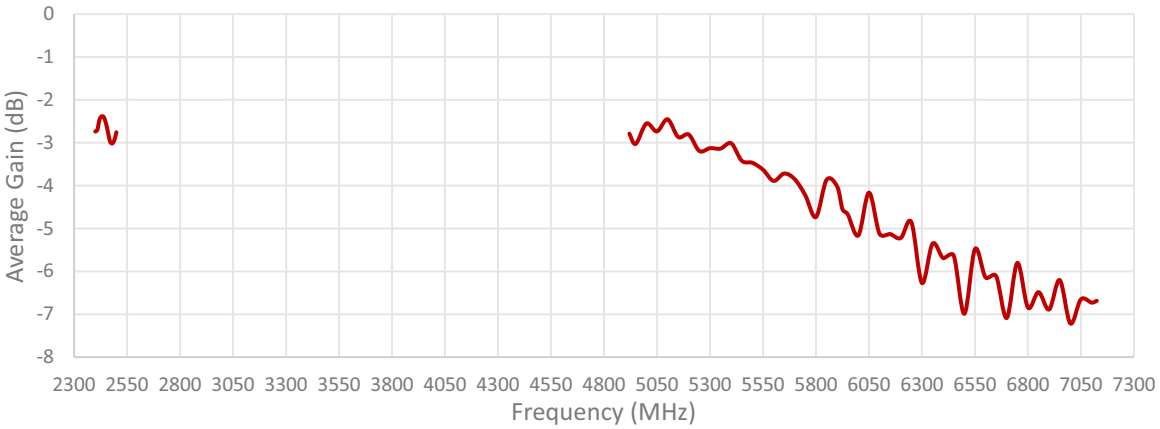
3. Antenna parameters

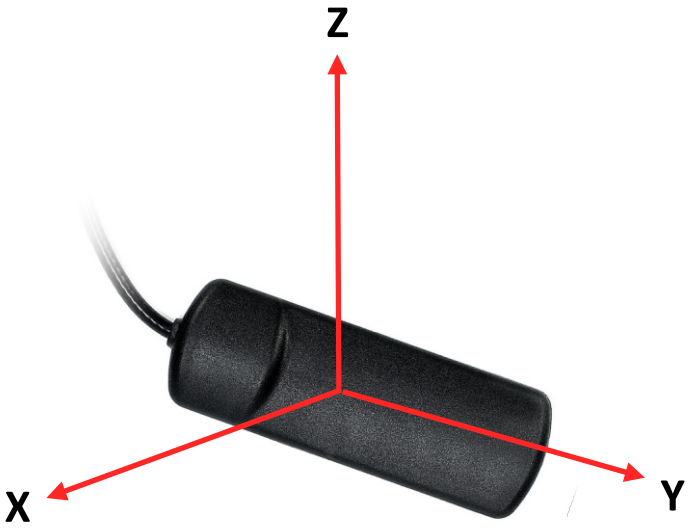




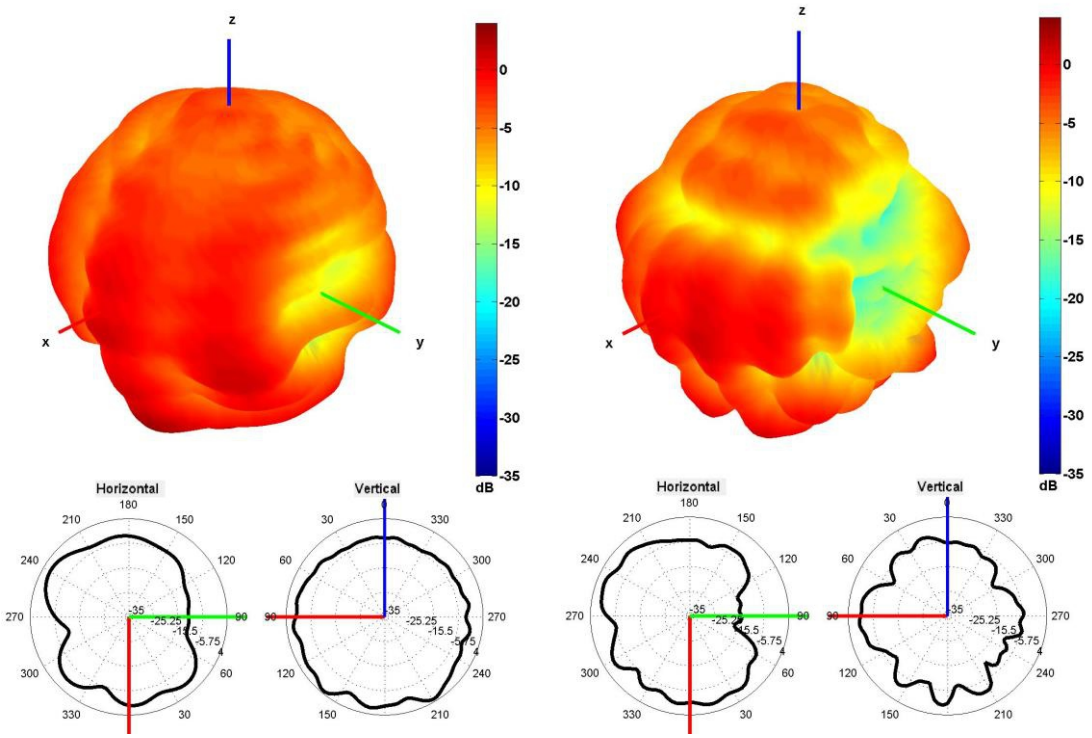

60
50
40
30
20
10
0
Efficiency (%)
2300 2550 2800 3050 3300 3550 3800 4050 4300 4550 4800 5050 5300 5550 5800 6050 6300 6550 6800 7050 7300
Frequency (MHz)


4
3
2
1
0
-1
Peak Gain (dBi)
2300 2550 2800 3050 3300 3550 3800 4050 4300 4550 4800 5050 5300 5550 5800 6050 6300 6550 6800 7050 7300
Frequency (MHz)

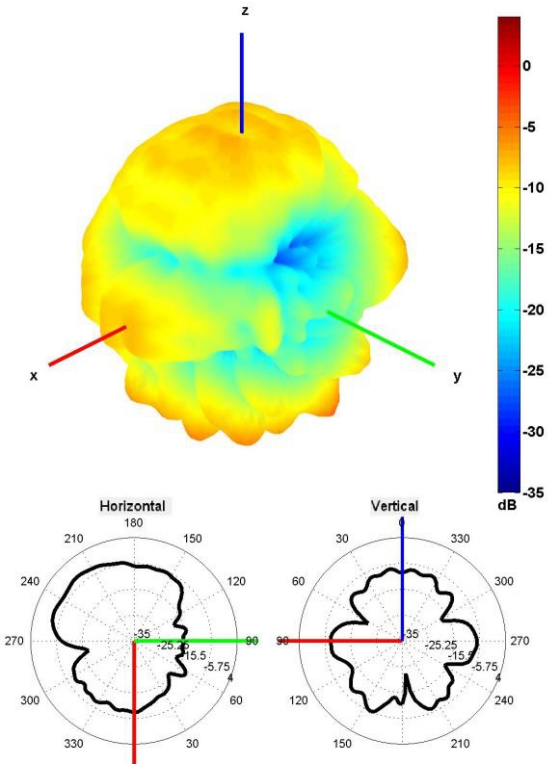




Radiation pattern reference



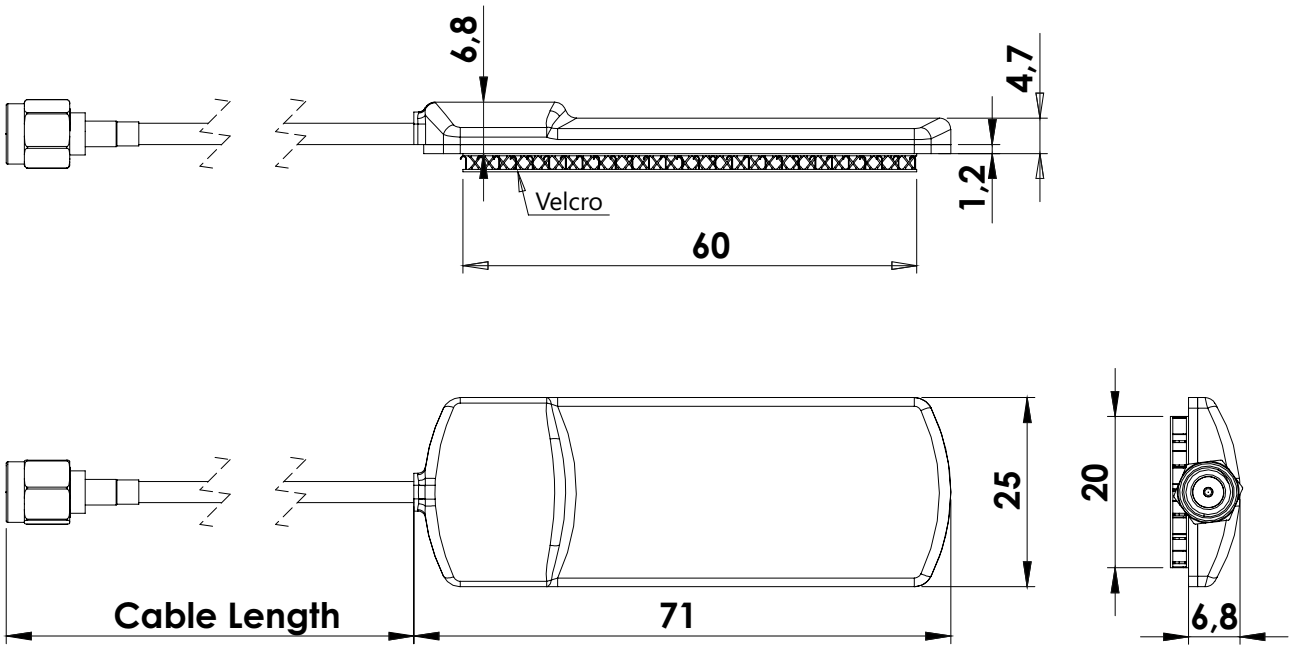
2450 and 5500 MHz Radiation pattern



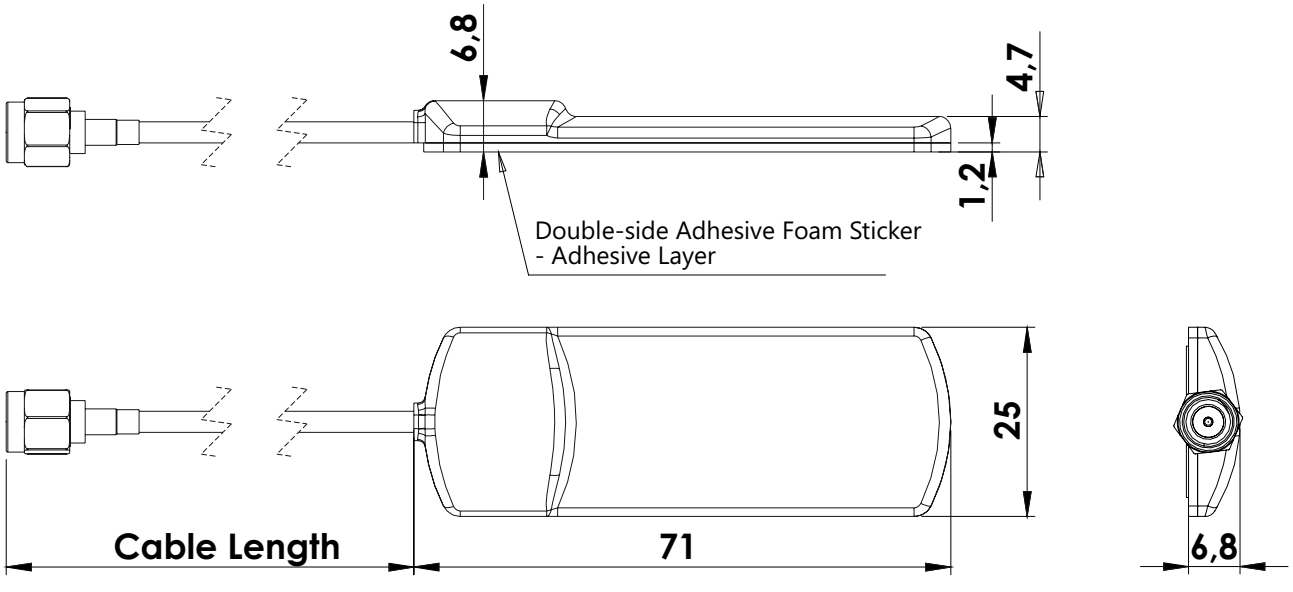
6500 MHz Radiation pattern

4. Antenna drawings

Velcro Mount option



Adhesive Mount option



5. Antenna Images

