

2J4702B-TH19

2.4/5.0/6.0 GHz ISM Screw Mount

Key Features

2.4/5.0/6.0 GHz ISM

- 2410-2490 MHz
- 4920-7125 MHz

Screw Mount

Low Profile

Ground Plane Dependent

Customizable Cable and Connector

Dimensions $\varnothing 52 \times 17.5$ mm

Certificates: IP67, IP69



Note: 19mm Thread is Default Option. See Drawing for other Thread Options available.



1. Antenna and electrical specifications

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-7.4	~-14.9	~-9.6
VSWR	~2.5:1	~1.5:1	~2.1:1
Efficiency (%)	~35.8	~28.4	~25.2
Peak Gain (dBi)	~3.5	~2.9	~2.9
Average Gain (dB)	~-4.5	~-5.5	~-6.2
Impedance (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 (RG174 Standard)		

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Metal Plate

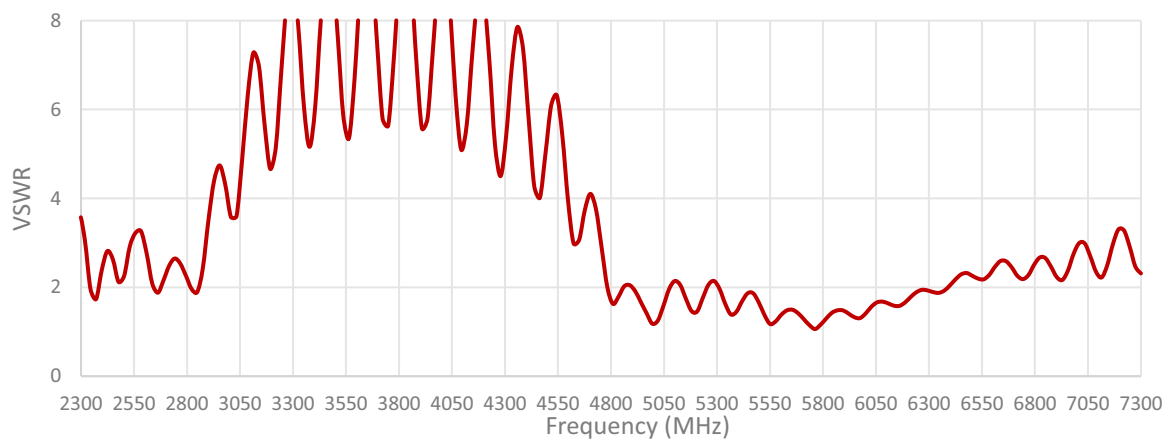
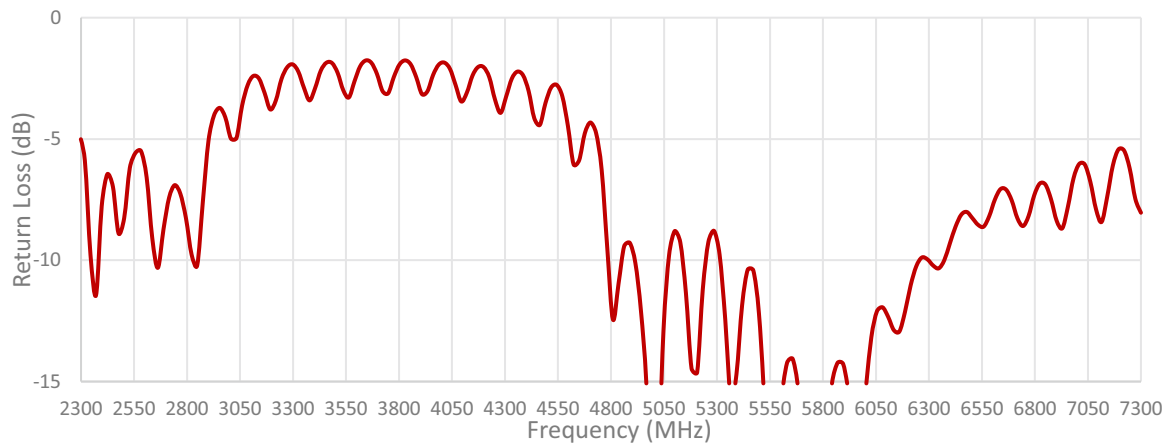
100 cm of RG174 Cable

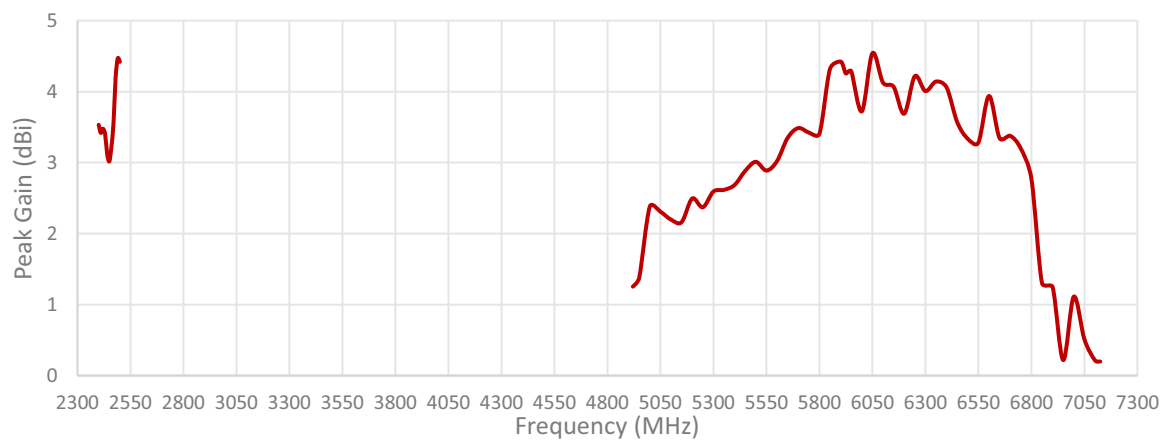
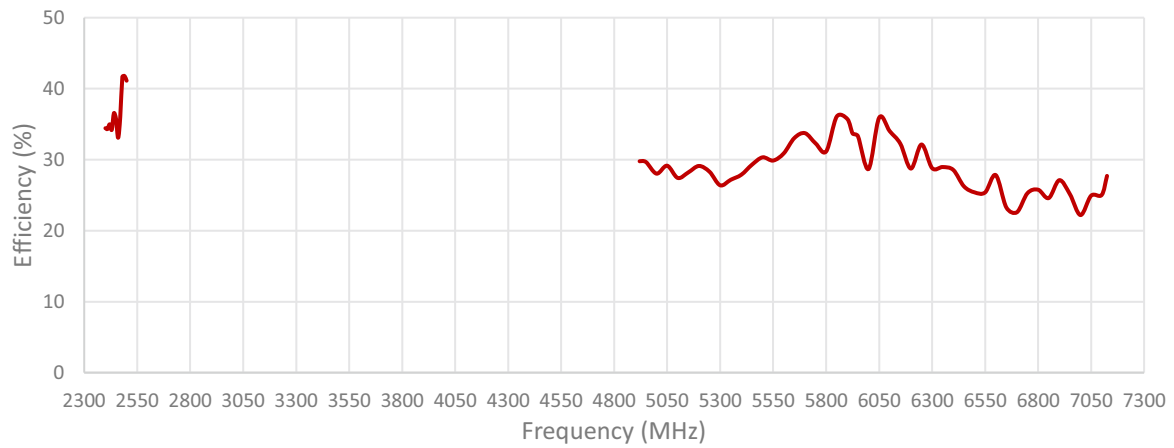
Measured in Certified CTIA 3D Anechoic Chamber

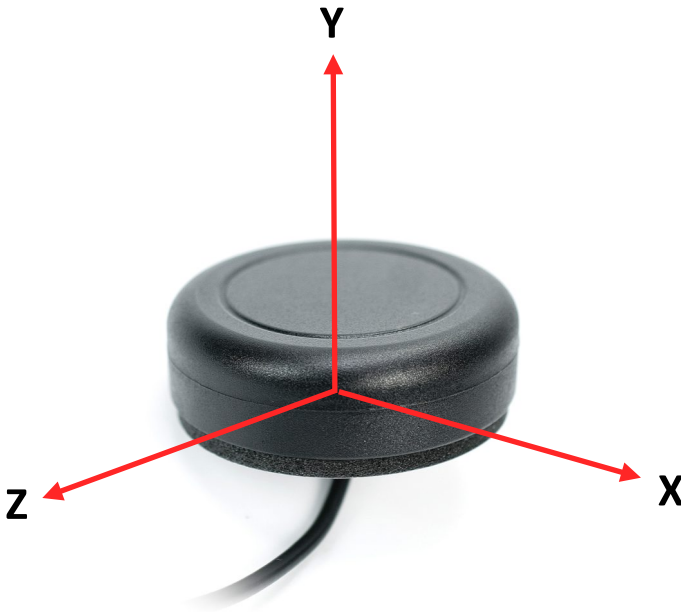
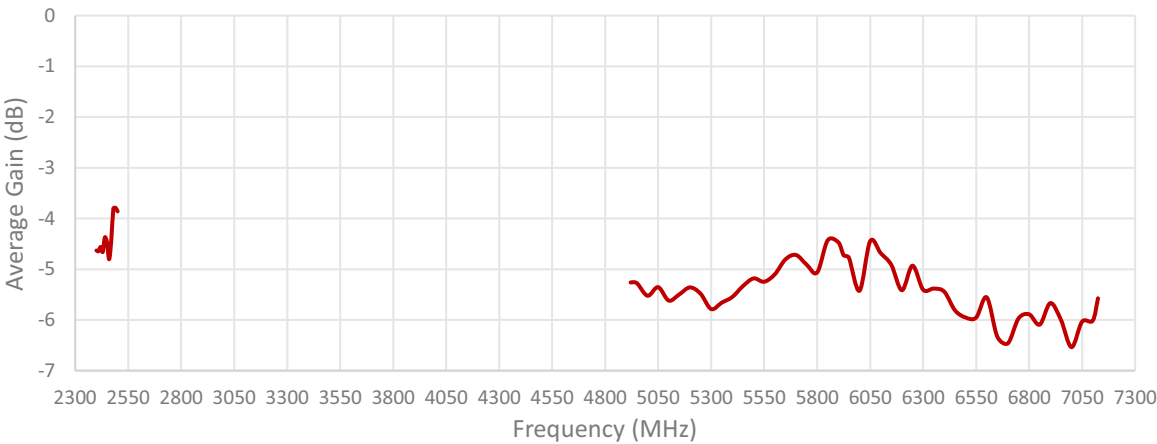
2. Mechanical and environmental specifications

Specifications	2J4702B-TH19
Mounting Type	Screw Mount
Dimensions (mm)	Ø 52 × 17.5
Rec. Tighten Torque (Nm)	5 Nm
Radome	ASA
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

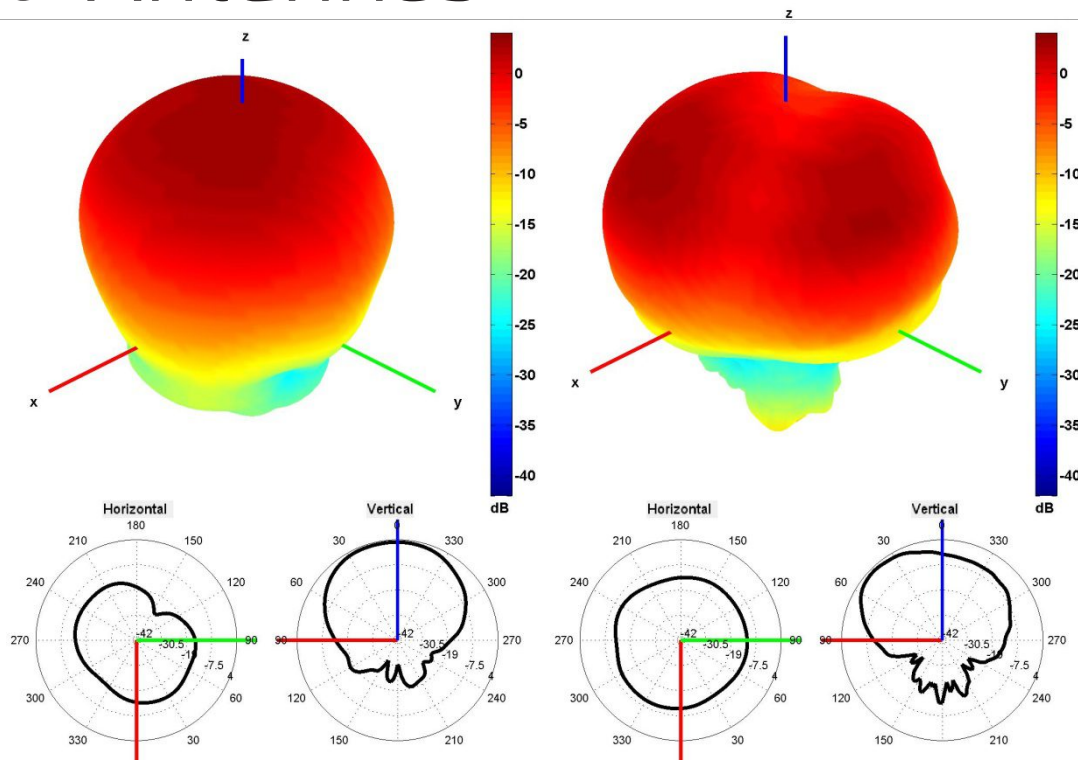
3. Antenna parameters



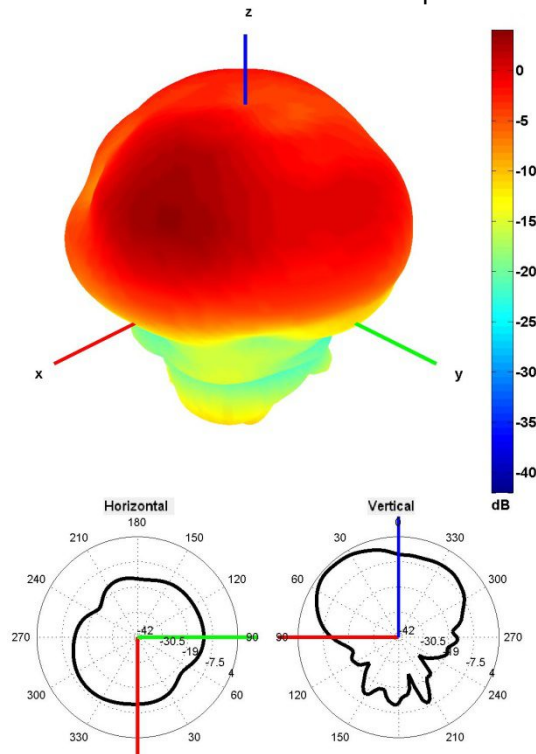




Radiation pattern reference



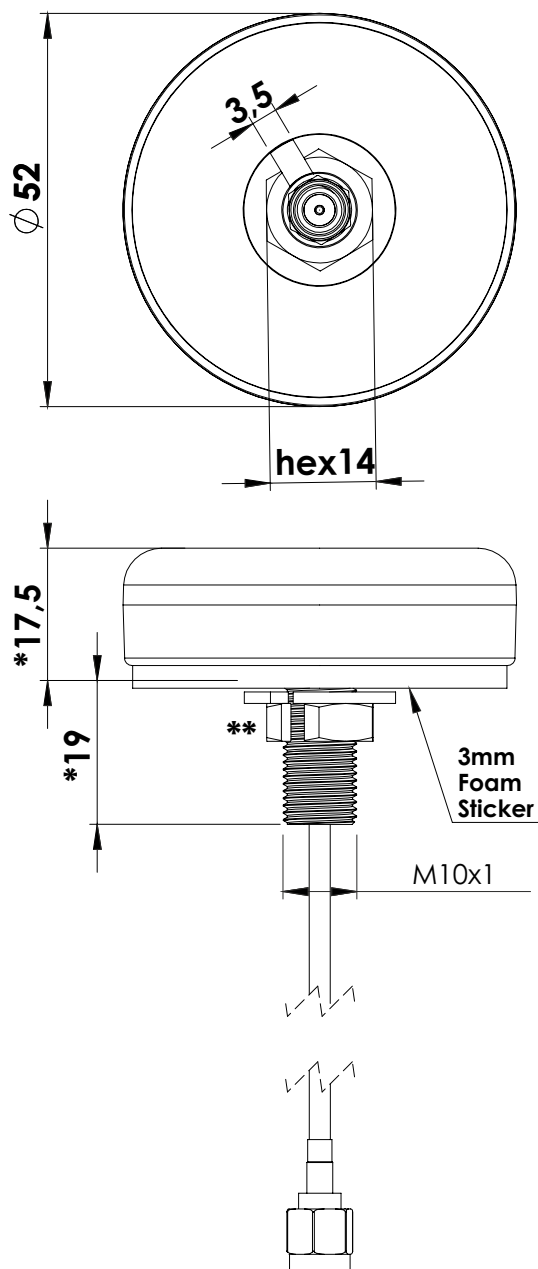
2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

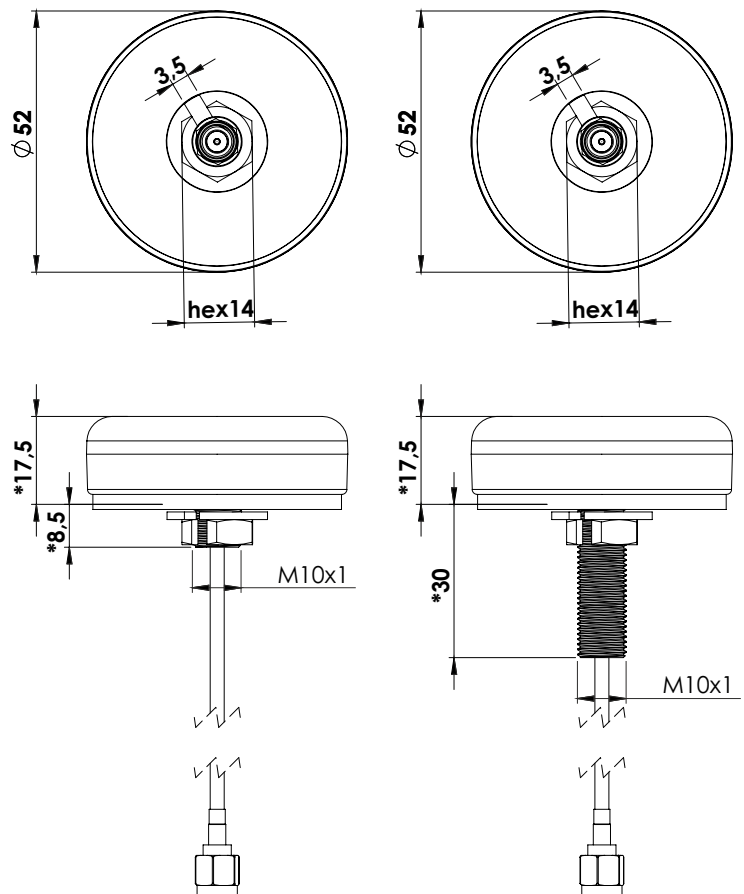
4. Antenna drawings

Default Thread Option



2J4702B-TH19
19 mm Thread
Default Option

Other Thread Options available



2J4702B-TH8,5
8,5 mm Thread

2J4702B-TH30
30 mm Thread

***Dimensions after mounting**
****Rec. Torque= 5 Nm**

5. Antenna Images

