antenna conceptor

Product Datasheet

2J6015B-868-2.4-TH19

868 MHz / 2.4GHz ISM Screw Mount

Key Features

868 MHz / 2.4GHz ISM
- 863-870 MHz
- 2410-2490 MHz

Screw Mount
Ground Plane Independent
High Performance
Low Profile
Customizable Cable and Connector
Dimensions 80 × 74 × 14.7 mm
Certificates: IP67

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

1. Antenna and electrical specifications

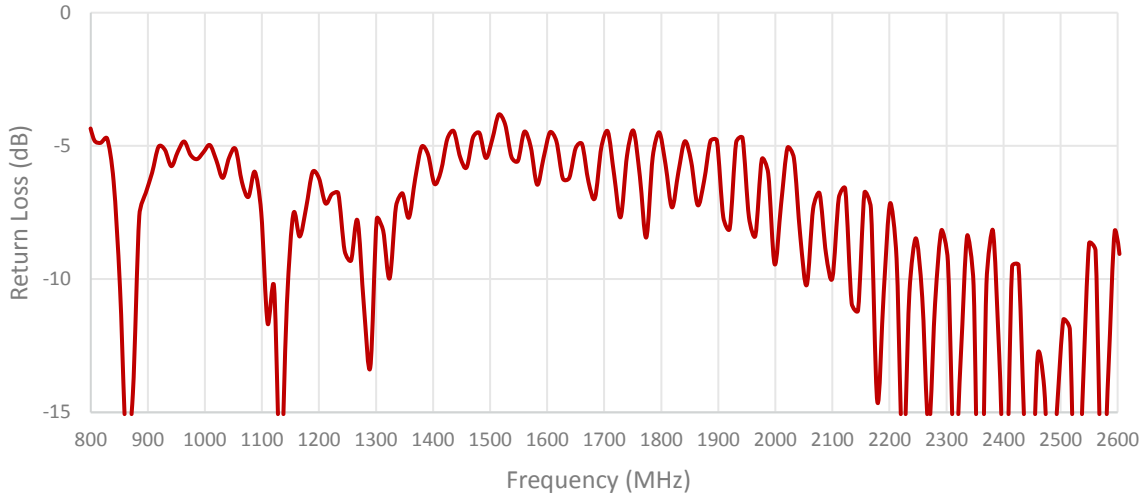
Parameters	868MHz / 2.4 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM, SigFox, LoRa	
Band (MHz)	868	2400
Frequency (MHz)	863-870	2410-2490
Return Loss (dB)	~-15.3	~-14.7
VSWR	~1.4:1	~1.5:1
Efficiency (%)	~50.5	~40.8
Peak Gain (dBi)	~2.2	~3.7
Average Gain (dB)	~-3.0	~-4.1
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	LL100 Standard (Other Cables Available)	

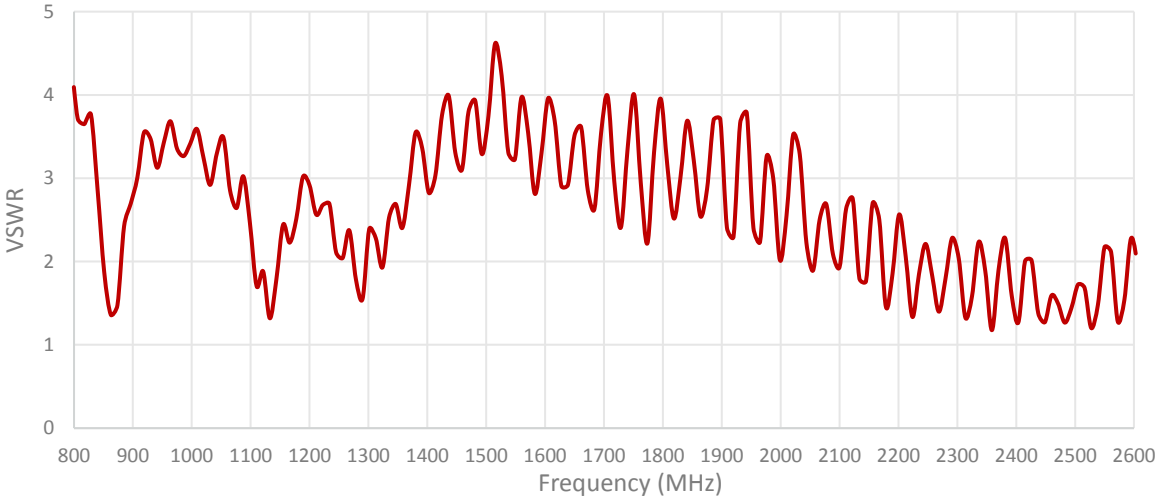
Antenna Measurement Conditions:
Mounted on Metal Plate of 30 x 30 cm
200 cm of Cable LL100
Measured in Certified CTIA 3D Anechoic Chamber

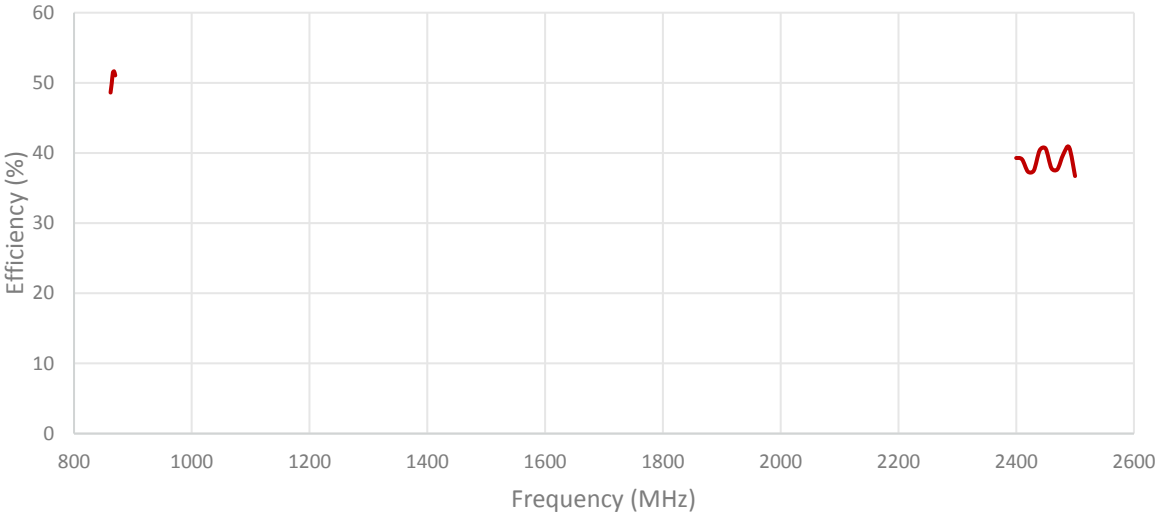
2. Mechanical and environmental specifications

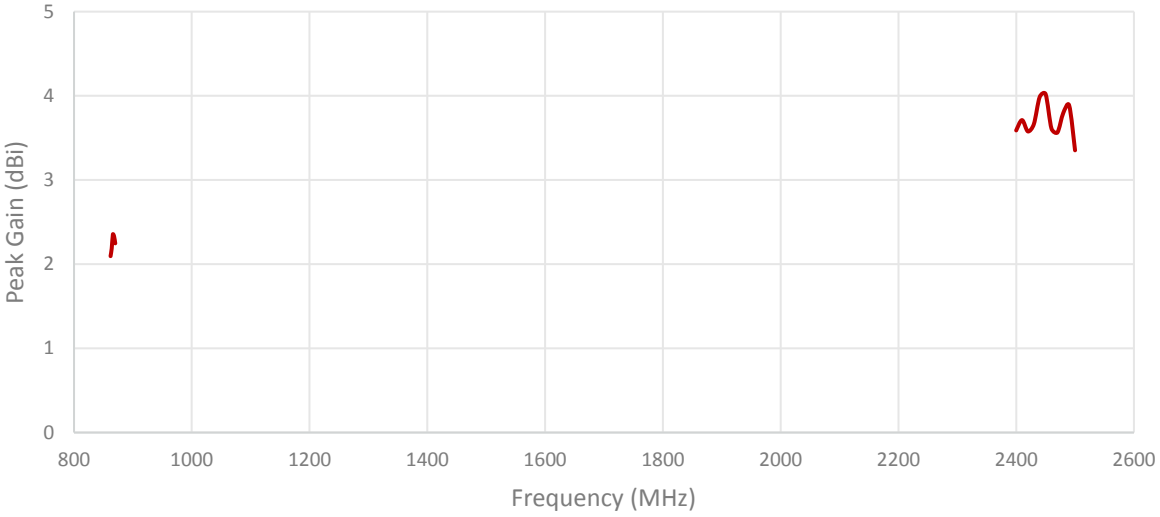
Specifications	2J6015B-868-2.4-TH19
Mounting Type	Screw Mount
Dimensions (mm)	80 × 74 × 14.7
Max. Tighten Torque (Nm)	5 Nm
Radome	ASA
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

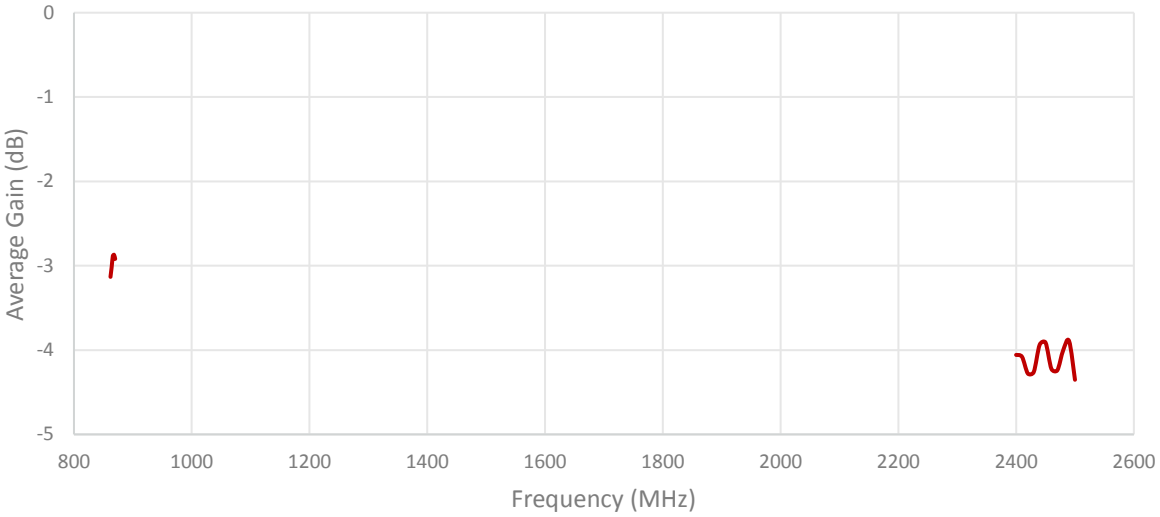
3. Antenna parameters

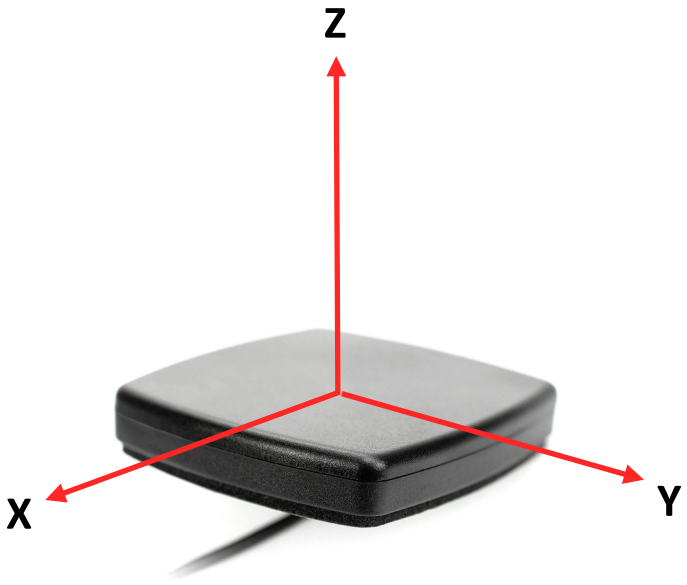




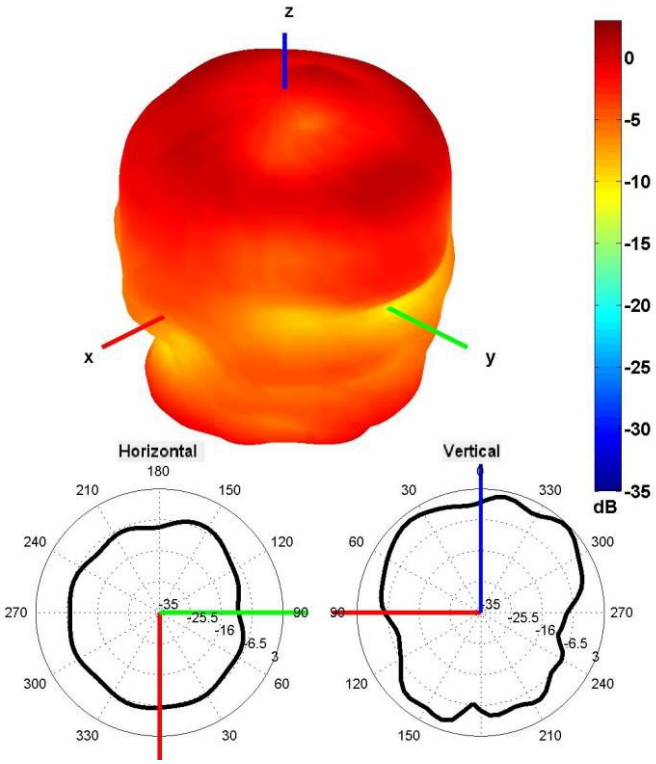

60
50
40
30
20
10
0
Efficiency (%)
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
Frequency (MHz)


5
4
3
2
1
0
Peak Gain (dBi)
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
Frequency (MHz)

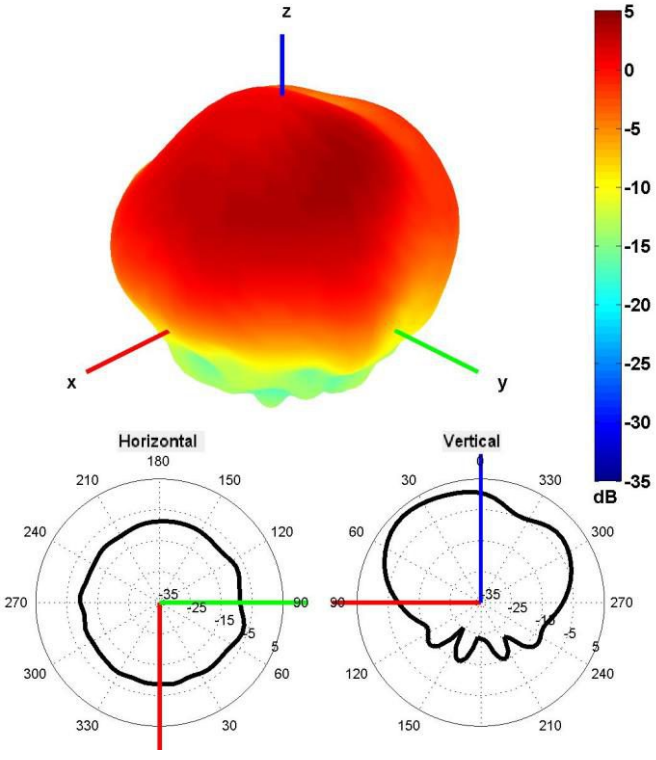




Radiation pattern reference



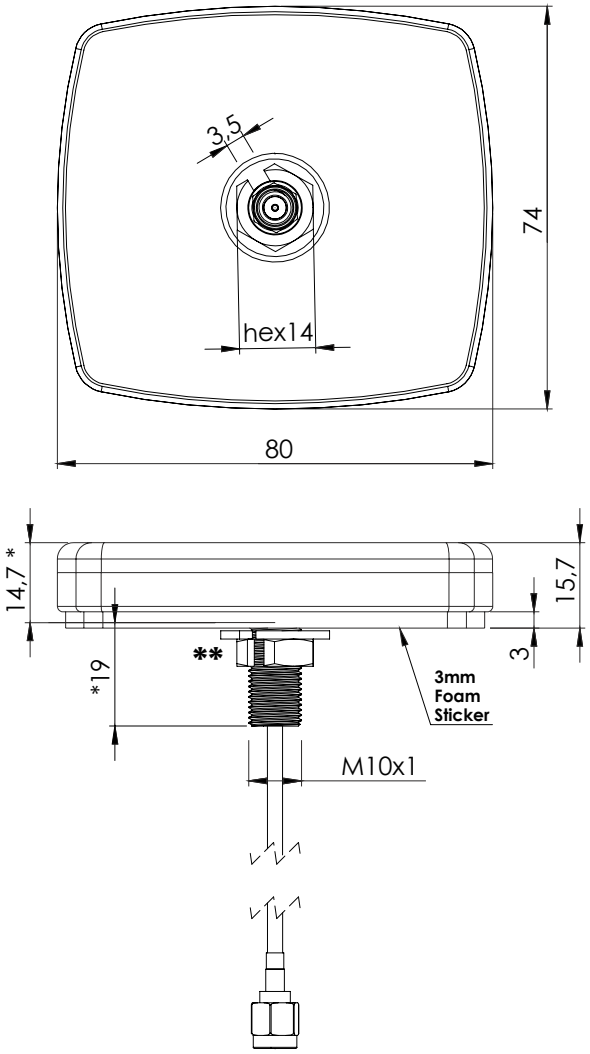
868 MHz Radiation pattern



2400 MHz Radiation pattern

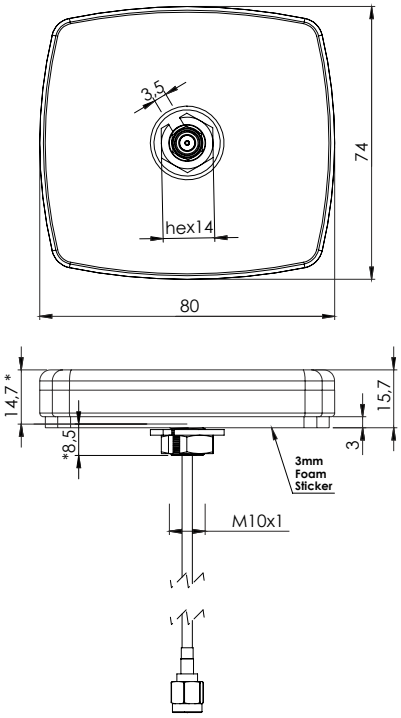
4. Antenna drawings

Default Thread Option

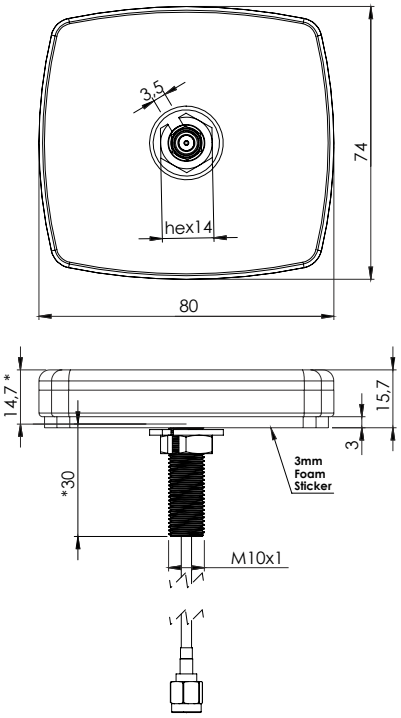


2J6015B-868-2.4-TH19
19 mm Thread
Default Option

Other Thread Options available



2J6015B-868-2.4-TH8,5
8,5 mm Thread



2J6015B-868-2.4-TH30
30 mm Thread

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

5. Antenna Images