

The WANT-4DBI-SMA is a high-performance tri-band tuned antenna targeting the 2.4GHz, 5GHz and 6GHz bands. A perfectly aesthetic and robust fit for AP/Router devices, Media Players, Home Theatre, Internet Appliances, Mini-Computers. Network Appliances etc. The WANT-4DBI antenna series is suitable for Wi-Fi6E and a wide range of IoT, Bluetooth, ZigBee, DSRC, ISM band and M2M applications.

### 1. Electrical Specifications

- Frequency: 2400~2500 MHz 4.9~7125 MHz
- VSWR: 2.0:1
- Impedance: 50Ω nominal
- Gain: 2400 - 2500 MHz 3.5 dBi (Peak)  
4900 - 5850 MHz 3.8 dBi (Peak)  
5850 - 7125 MHz 3.8 dBi (Peak)
- Polarization: Linear
- HPBW/Horizontal: 360°
- Radiation: Omni-directional

### 2. Mechanical Specifications

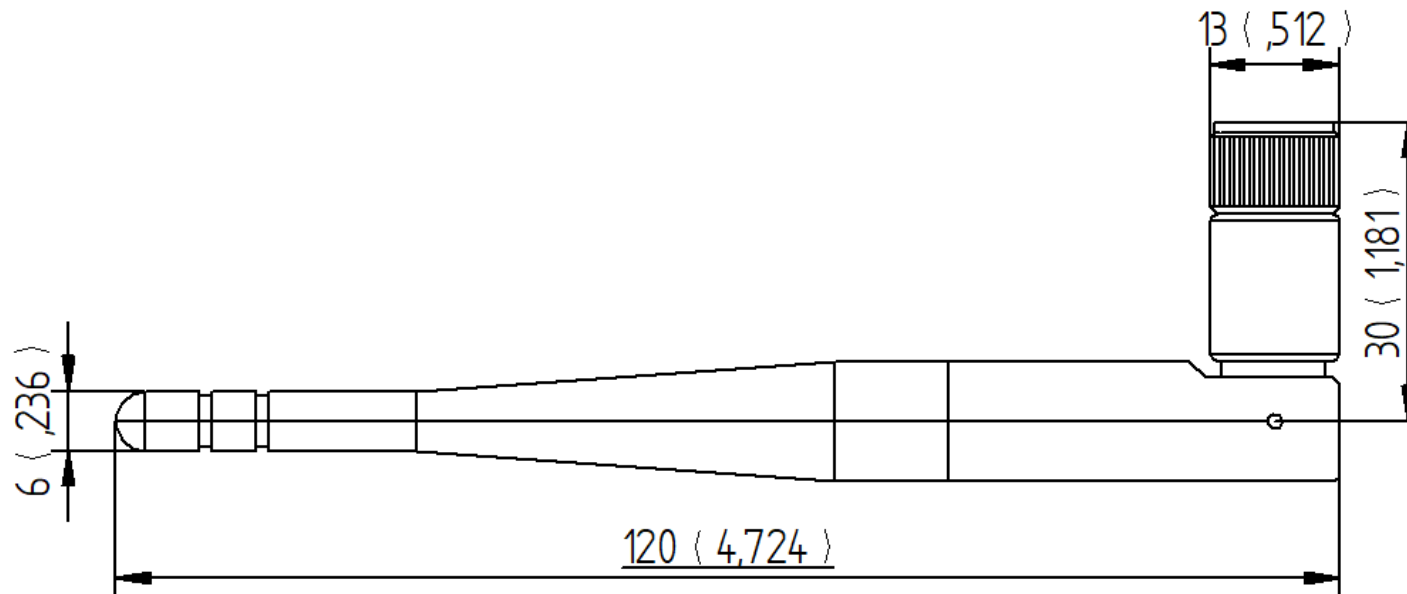
- Antenna Body: TPEE
- Color: Black
- Weight 17 g
- Operating temp: -40°C ~ +85 °C
- IP Rating IP67

### 3. Mounting:

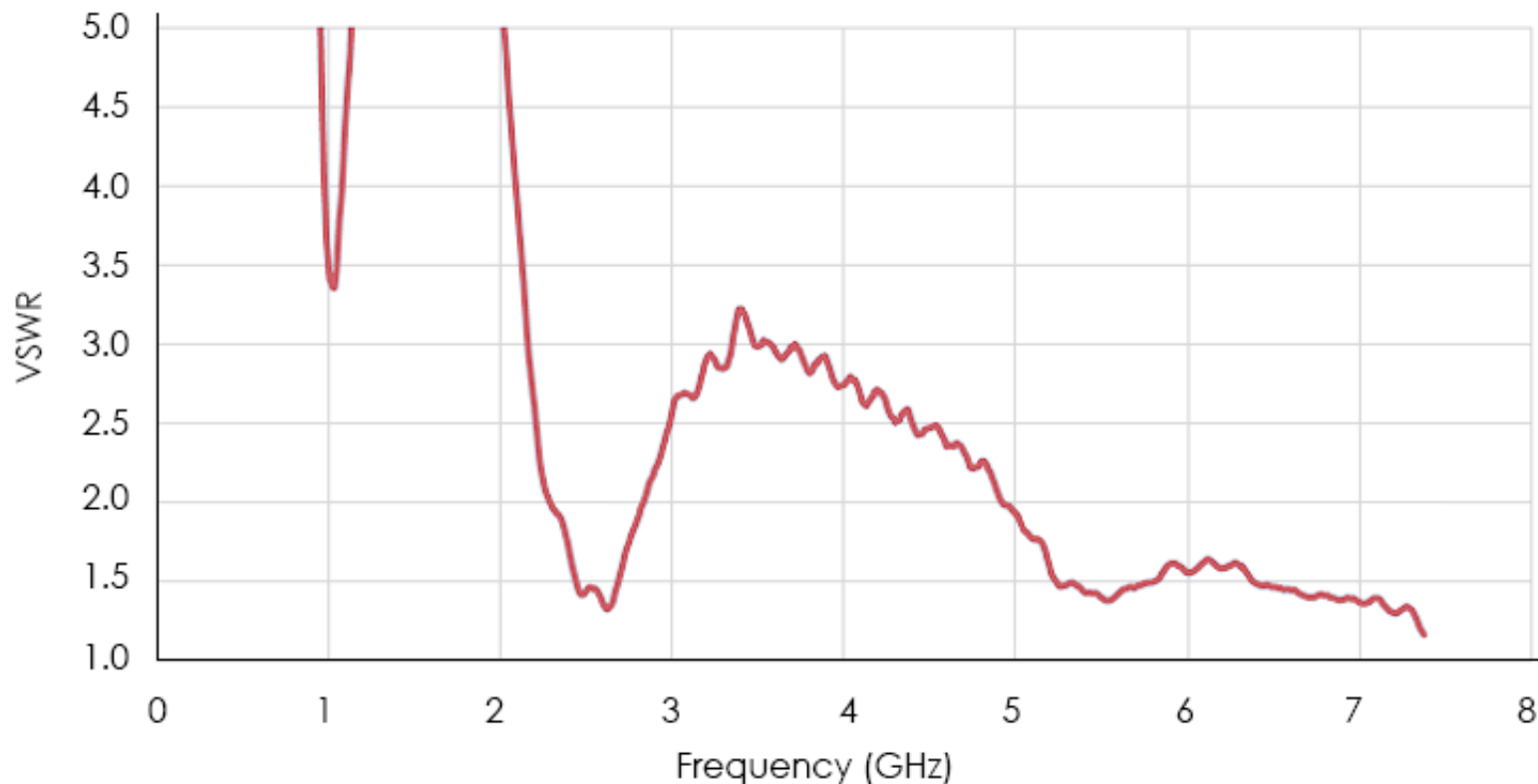
- Standard connector: Reverse Pole SMA.
- Termination Type: Swivel
- SAR minimum separation: 215mm



**4. Mechanical Drawing**

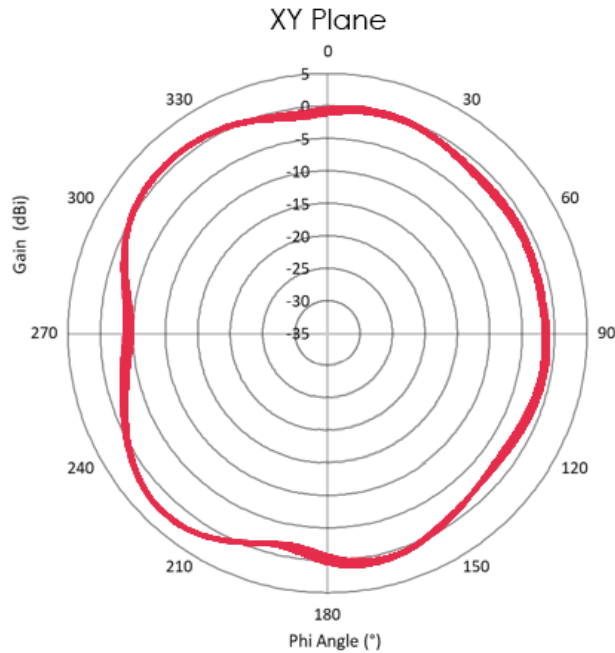


#### 4. VSWR



**5. Antenna Radiation Pattern Chart**

Horizontal Plane



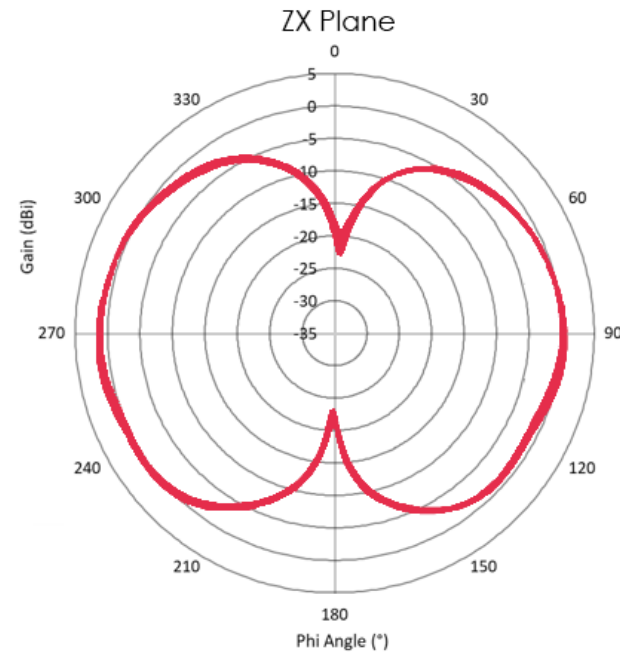
**2400MHz**  
Avg dBi = -0.75  
Peak dBi = 2.3  
Avg -3(deg) = 140

**2450MHz**  
Avg dBi = -0.4  
Peak dBi = 2.5  
Avg -3(deg) = 148

**2500MHz**  
Avg dBi = -0.3  
Peak dBi = 2.5  
Avg -3(deg) = 156

— 2400 MHz  
— 2450 MHz  
— 2500 MHz

Vertical Plane



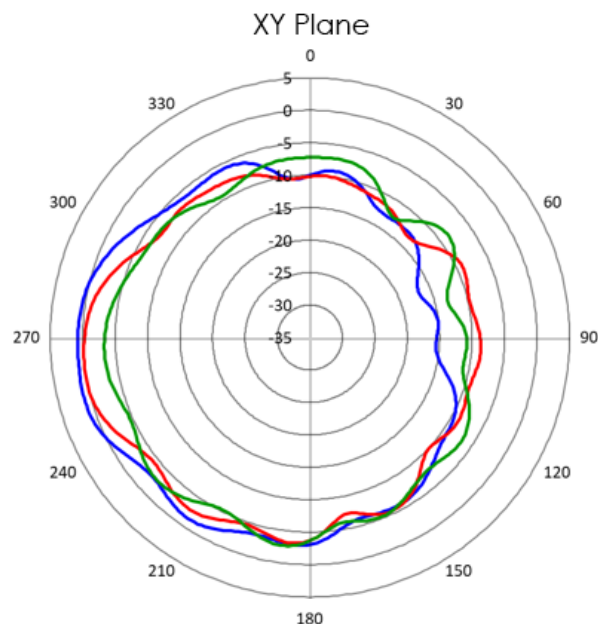
**2400MHz**  
Avg dBi = -2.05  
Peak dBi = 1.1  
Avg -3(deg) = 190

**2450MHz**  
Avg dBi = -1.9  
Peak dBi = 1.5  
Avg -3(deg) = 178

**2500MHz**  
Avg dBi = -2.00  
Peak dBi = 1.58  
Avg -3(deg) = 167

— 2400 MHz  
— 2450 MHz  
— 2500 MHz



**5. Antenna Radiation Pattern Chart****Horizontal Plane****5150MHz**

Avg dBi = -4.33

Peak dBi = 1.03

Avg -3(deg) = 75.5

**6000MHz**

Avg dBi = -5.4

Peak dBi = 0.05

Avg -3(deg) = 56

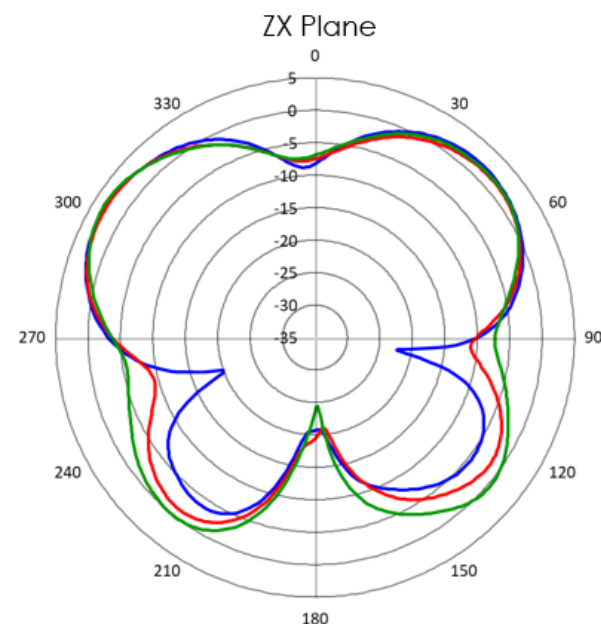
**7125MHz**

Avg dBi = -6.1

Peak dBi = -2.65

Avg -3(deg) = 127

— 5150MHz  
— 6000MHz  
— 7125MHz

**Vertical Plane****5150MHz**

Avg dBi = -2.3

Peak dBi = 3.1

Avg -3(deg) = 91

**6000MHz**

Avg dBi = -2.15

Peak dBi = 2.9

Avg -3(deg) = 82

**7125MHz**

Avg dBi = -1.45

Peak dBi = 3.3

Avg -3(deg) = 80

— 5150MHz  
— 6000MHz  
— 7125MHz

