

# DATASHEET

**Type**  
**Frequencies**

Multiband antenna  
AMPS (824-894 MHz)  
ISM (868 MHz)  
GSM (900 MHz)  
DCS (1800 MHz)  
PCS (1900 MHz)  
3G (UMTS 2.1 GHz)  
WIFI / BLUETOOTH (2.4 GHz)

**Mounting**  
**Part No.**

Magnetic Mount  
MG3S, MG3D

**Revision**



## 1. SPECIFICATION

### 1.1. Electrical Specifications

|                       |   |
|-----------------------|---|
| Frequencies           | AMPS (824-894 MHz)<br>ISM (868 MHz)<br>GSM (900 MHz)<br>DCS (1800 MHz)<br>PCS (1900 MHz)<br>3G (UMTS 2.1 GHz)<br>WIFI / BLUETOOTH (2.4 GHz) |
| Impedance             | 50 Ohms   |
| Polarization          | VERTICAL  |
| Gain                  | 5dBi at 2.4GHz  |
| Power handling        | 30W   |
| Operating temperature | -40°C to +85°C  |

### 1.2. Connection Specifications

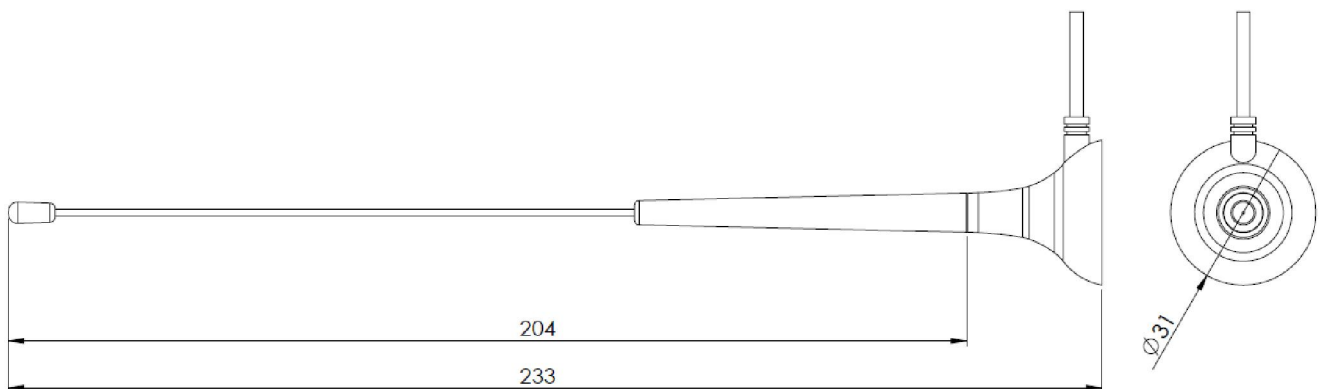
Connector type: SMA male (on request )  
Cable: RG174U Cable length: 250 cm

For different cable length and connector type ask our sales team.

### 1.3. Mechanical Specifications and Dimensions

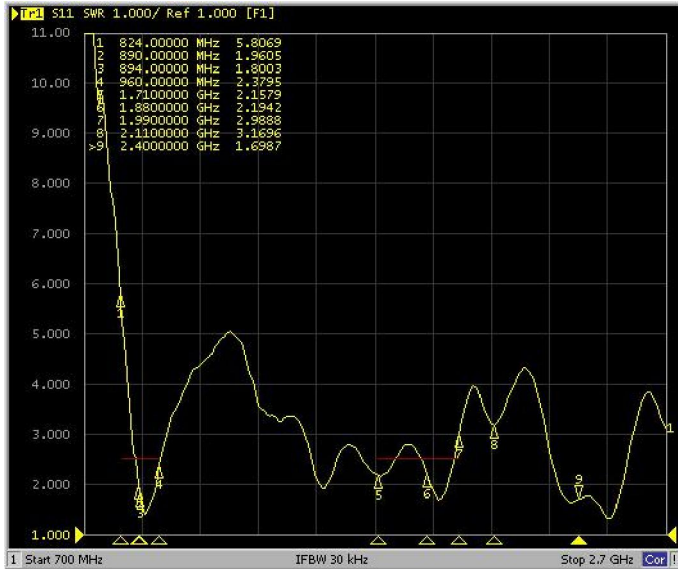
#### 1.3.1. Magnetic Mount

Material: ABS  
Max. dimensions: 31mm x 233mm (D x H)  
Weight: 65g 'weight with connection above'  
Colour: Black (for different colours please ask our sales team)



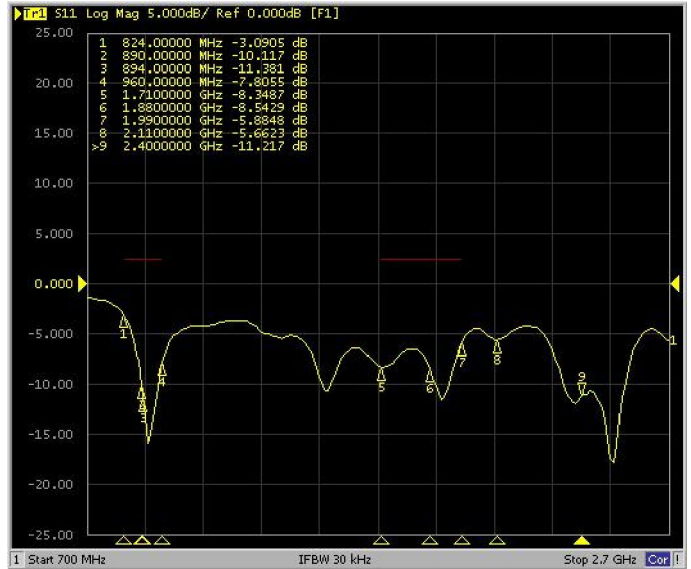
## 2. MEASUREMENT

VSWR(Quad Band)



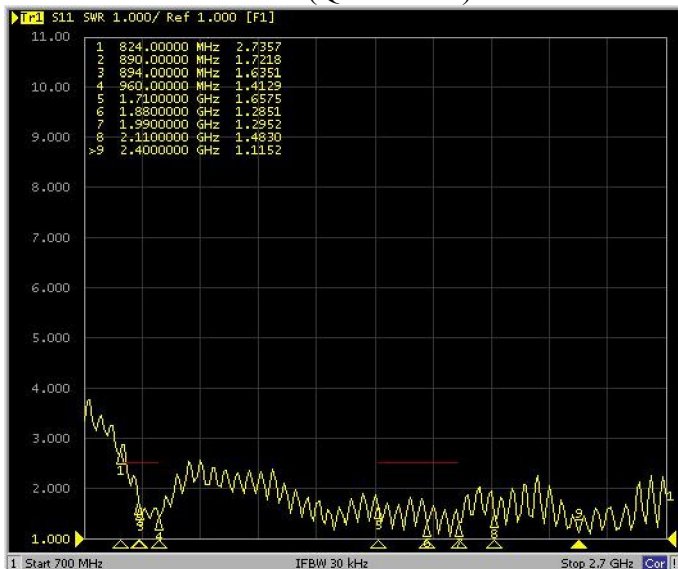
Tested with 30cm cable length - RG174 with SMA male

Log Mag(Quad Band)



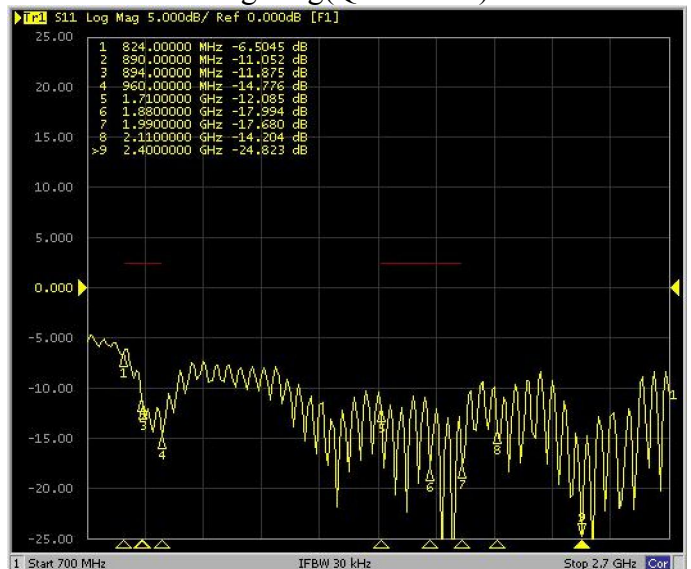
Tested with 30cm cable length - RG174 with SMA male

VSWR(Quad Band)



Tested with 2.5m cable length - RG174 with SMA male

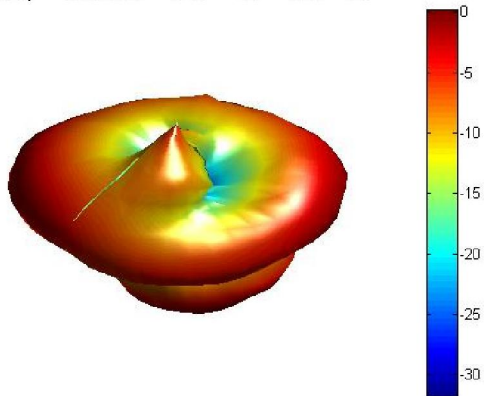
Log Mag(Quad Band)



Tested with 2.5m cable length - RG174 with SMA male

3D radiation pattern at 900MHz.jpg

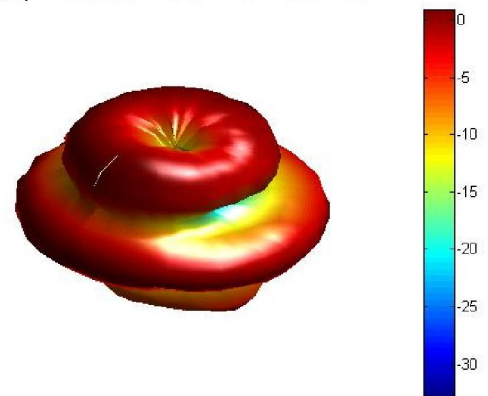
Freq = 0.9GHz Az= 45 EL= 45



Tested with 30cm cable length.

3D radiation pattern at 1.8GHz.jpg

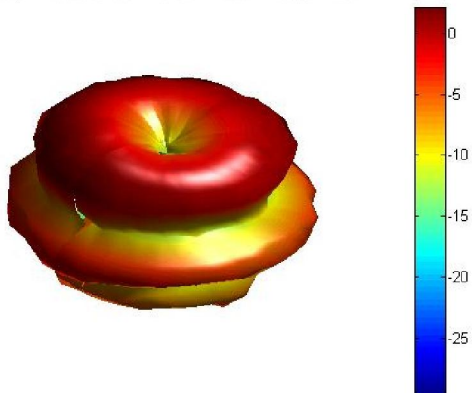
Freq = 1.8GHz Az= 45 EL= 45



Tested with 30cm cable length.

3D radiation pattern at 1.9GHz.jpg

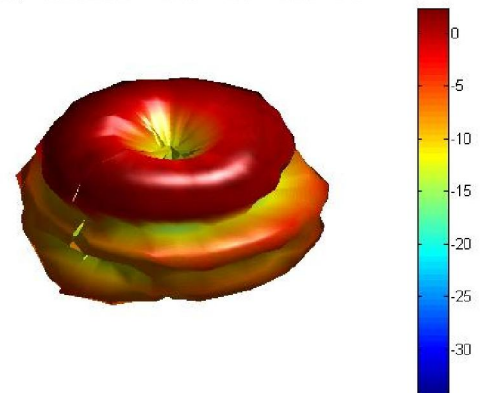
Freq = 1.9GHz Az= 45 EL= 45



Tested with 30cm cable length.

3D radiation pattern at 2.4GHz.jpg

Freq = 2.4GHz Az= 45 EL= 45



Tested with 30cm cable length.

### 3. IMAGES

