





### **General Description**

The Mike 16 magnetic mount antenna has both a cellular and GPS antenna built in. Covering 2G and 3G cellular frequencies along with standard GPS coverage.

Typical applications for this antenna are mobile vehicle tracking and data logging.

A variety of connector options and cable lengths are available and others can be specified for volume orders

#### **Key Features**

- Magnetic mount
- 2G GSM/GPRS and 3G
- 2dBi Peak Gain GSM Antenna

#### **Additional Considerations**

- 28dB GPS LNA Gain
- Covers 4G at 800MHz
- Meets all EU compliance criteria for electronic goods



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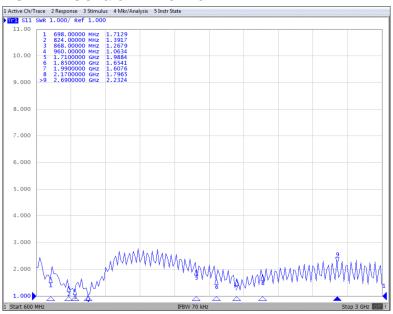
### **Cellular Electrical Specifications**

Temperature Range:	-40 - +85°C
Impedance:	50 Ohm
Peak Gain:	2dBi
VSWR:	≤2.5
Operating Frequency:	824-960, 1710-2170MHz
Polarization:	Linear
Radiating Element:	Whip

### **GPS Electrical Specifications**

Center Frequency:	1575.42 MHz
Bandwidth:	CF +/- 5MHz
Polarization:	RHCP
VSWR:	≤1.5
Axial Ratio:	3dB Max
LNA Gain:	28 +/- 2dB
Supply Voltage:	2.2~5V DC
Current Consumption	5~15mA

### VSWR - Cellular Antenna



## **Mechanical Specifications**

Dimensions:	53 x 60 x 15mm
Cable:	RG174
Connector:	SMA
Mounting Method:	Magnetic

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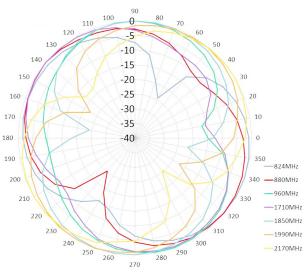
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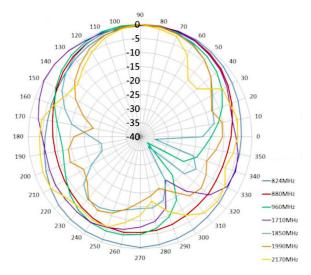
### **Cellular Radiation Plots**

XY Plane



XZ Plane 90 100 80 0 110 70 120 60 -5 130 50 -10 140 40 -15 150 -20 -25 160 20 -30 170 10 -35 -40 180 0 190 350 824MHz 200 340 -880MHz 210 330 960MHz 220 320 -1710MHz 230 310 -1850MHz 240 300 -1990MHz 250 290 260 280 \_\_\_\_2170MHz 270

YZ Plane



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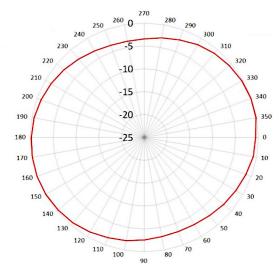
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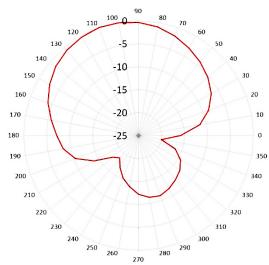


### **GPS Radiation Plots**

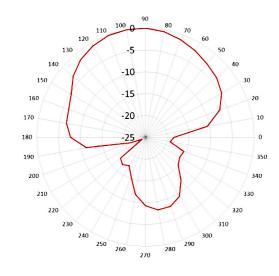
XY Plane



XZ Plane



#### YZ Plane



### **Ordering Details**

Part Number

Description

MIKE16/2.5M/SMAM/SMAM/S/S/26 Magnetic Mount 2G/3G plus GPS Antenna, 2.5m Cable, 2 x SMA Male Connector

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