



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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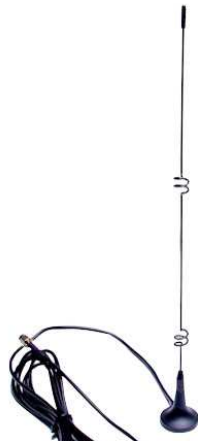
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Key Features

- Quad band GSM & 3G
- Strong magnetic base
- High gain: 5dBi
- Omni-directional
- Flexible connector & cable options
- RoHS compliant



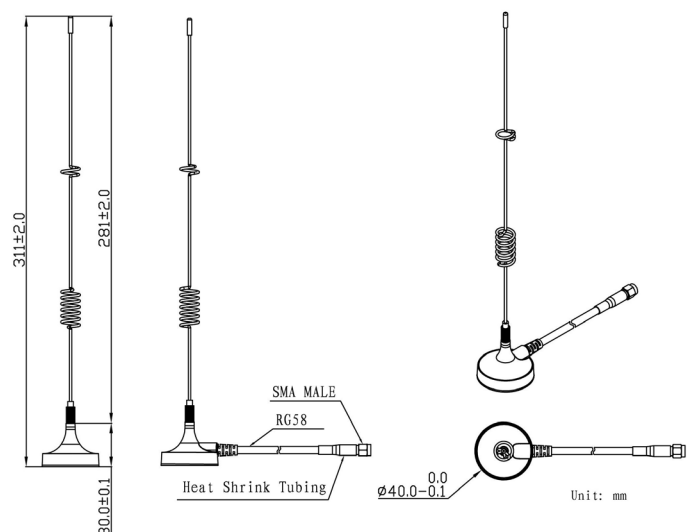
General Description

The Mike 2A family is a range of 1/2 wave omni-directional antennas that operate on quad band GSM, ISM and 3G frequencies, producing a high gain of 5dBi and measures at 311mm tall from the very bottom of its base to its tip.

The Mike 2A comes with a very strong magnetic base that commits to a firm purchase of magnetic surfaces. A variety of cable lengths and different connector types can be applied to the antenna, the most popular of which can be seen in the 'Ordering Details' table overpage. As standard, the Mike 2A comes with an RG174 cable however, it can be supplied with an RG58 cable upon request.

Additional Considerations

- Allows quick and easy implementation into target applications
- Magnetic mounting allows versatility when rearranging its position to achieve the most optimal signal transmission/reception
- High gain allows for better transmission/reception range - good for low signal areas
- Operates on popular quad band GSM and 3G frequencies so it is compatible worldwide



Rev 1.1

Key Specifications - Electrical

Temperature range:	-45 to +75°C
Vibration:	10 to 55Hz with 1.5mm amplitude 2hrs
Impedance:	50 ohm
Gain:	5.0dBi (Zenith)
V.S.W.R:	<2.0
Frequency range:	824~960MHz 1710~2170MHz
Polarization:	Linear/vertical

Key Specifications - Mechanical

Dimensions:	311mm tall
Cable:	RG174/RG58
Connector:	SMA, FME or others
Mounting method:	Magnetic

Gain

GSM

850MHz:	0.10dBi
900MHz:	2.97dBi
1800MHz:	-0.29dBi
1900MHz:	-0.34dBi

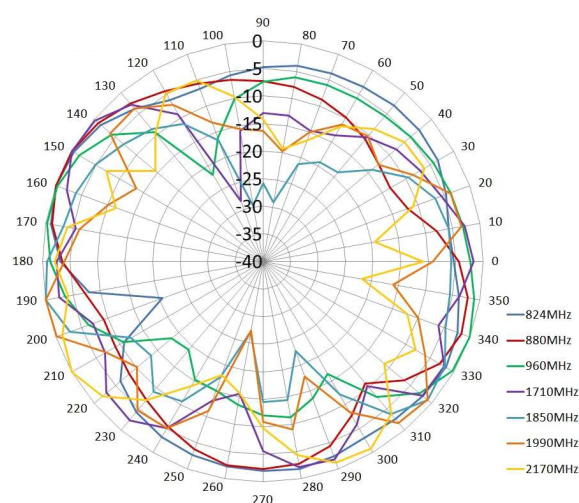
3G

2100MHz:	-2.68dBi
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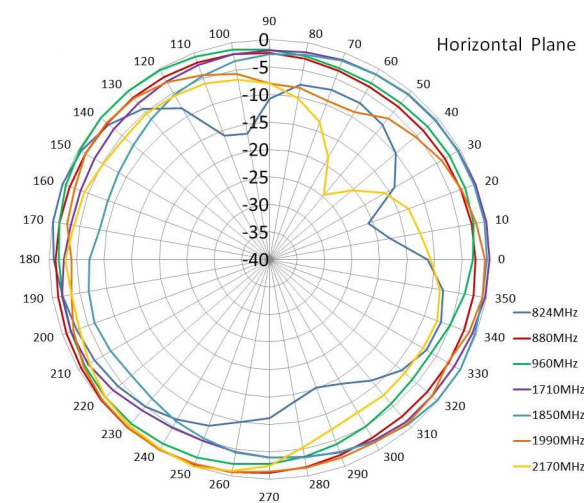
Test Reports

Radiation Pattern

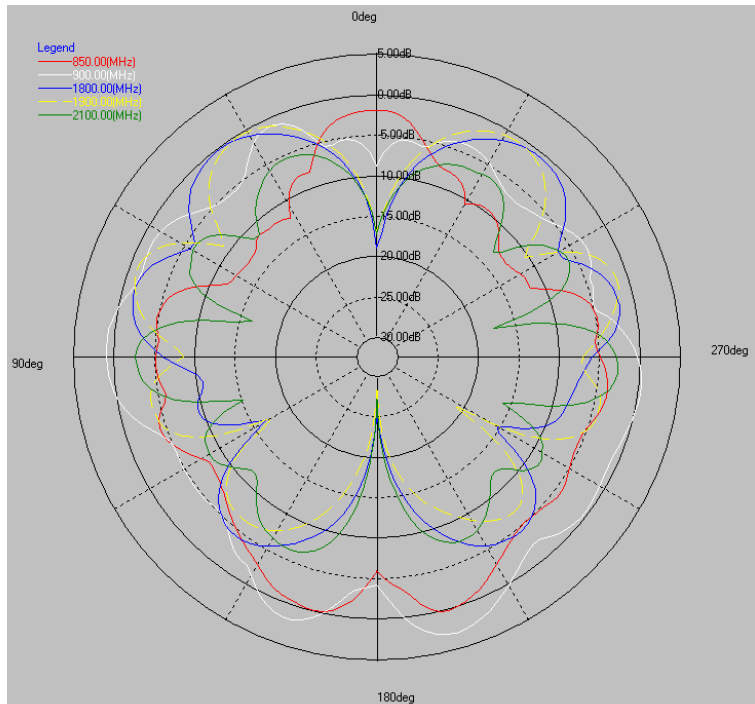
Vertical Plane



Horizontal Plane



Gain vs. Frequency Graph



UL Tested (Basingstoke, UK)
Part: MIKE 2A

Ordering Details

Part number	Description
MIKE2A/3M/SMAM/S/S/26	Magnetic Mount Quad Band GSM & 3G Antenna, 3m Cable, SMA Male Connector
MIKE2A/5M/SMAM/S/S/26	Magnetic Mount Quad Band GSM & 3G Antenna, 5m Cable, SMA Male Connector
MIKE2A/3M/FMEF/S/S/26	Magnetic Mount Quad Band GSM & 3G Antenna, 3m Cable, FME Female Connector
MIKE2A/5M/FMEF/S/S/26	Magnetic Mount Quad Band GSM & 3G Antenna, 5m Cable, FME Female Connector