

MG Cellular Dipole Antenna Datasheet

The dipole antennas (MA-ANT-C1-A) are included with the MG21E. When in use the dipoles have a spherical coverage in comparison to a patch antenna. The dipole antennas will excel at allowing users to place the MG in areas where a directional patch antenna cannot be mounted. The dipoles are directly attached to the MG21E and require no additional mounting hardware.



Specifications

| Category | Specifications |
|------------|--|
| Electrical | <p>Antenna Type</p> <p>Dipole</p> <p>Main Antenna</p> <p>Frequency Range</p> <ul style="list-style-type: none">• 829 (698 - 960) MHz• 1940 (1710 - 2170) MHz |

- 2495 (2300 - 2690) MHz
- 5500 (5150 - 5850) MHz

Peak Gain (per range)

- 829 @ 2.6dBi
- 1940 @ 4.2dBi
- 2495 @ 3.0dBi
- 5500 @ 3.5dBi

Polarization

Linear, vertical

Auxiliary Antenna

Frequency Range

- 829 (698 - 960) MHz
- 1940 (1710 - 2170) MHz
- 2495 (2300 - 2690) MHz
- 5500 (5150 - 5850) MHz

Peak Gain (per range)

- 829 @ 3.5dBi
- 1940 @ 2.7dBi
- 2495 @ 4.9dBi
- 5500 @ 2.9dBi

Polarization

Linear, vertical

Dimensions

129mm x 19.5mm x 12.3mm

Material of Radiator

PCB

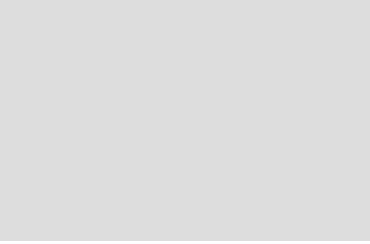
Material of Plastic

PC

Operational Temperature

-40°C to +65°C (-40°F to 149°F)

Physical and Environmental



Storage Temperature
 -40°C to +80°C (-40°F to 176°F)

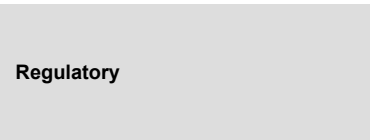


Connector
 RP-SMA (female)

Warranty
 1 year hardware warranty included



MA-ANT-C1-A



Certified for use with the MG21E
 MA-ANT-C1-A

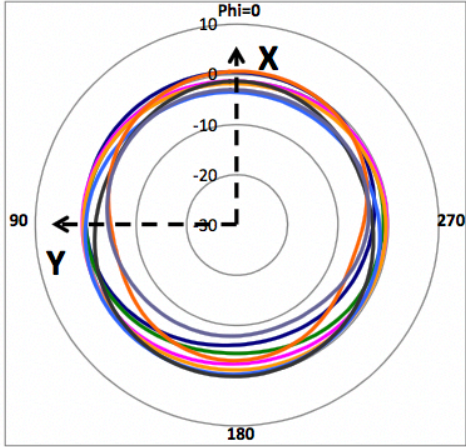
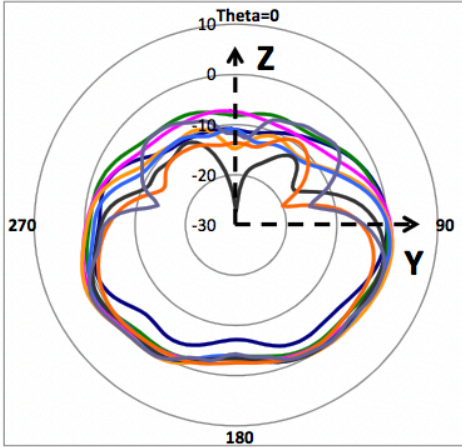
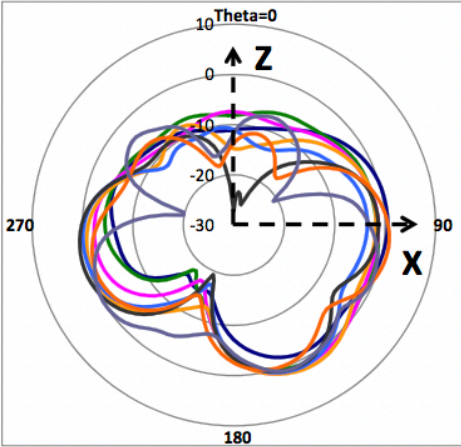
Radiation Patterns

Main Antenna

829 (698 - 960) MHz

Main Radiation Pattern

- 704MHz
- 734MHz
- 763MHz
- 806MHz
- 836MHz
- 867MHz
- 897MHz
- 955MHz

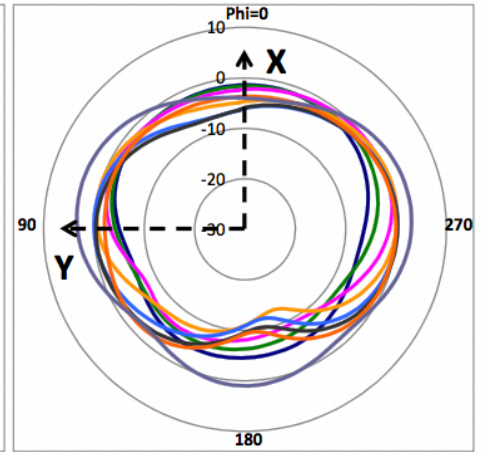
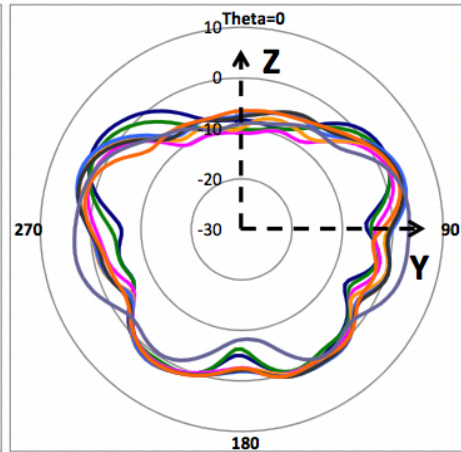
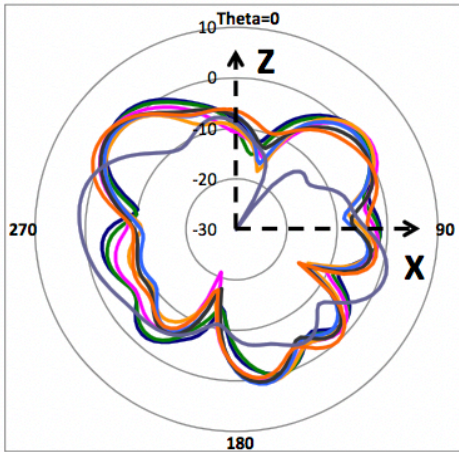


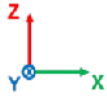


1940 (1710 - 2170) MHz

**Main
Radiation Pattern**

- | | |
|-----------|-----------|
| — 1715MHz | — 1900MHz |
| — 1747MHz | — 1925MHz |
| — 1842MHz | — 1975MHz |
| — 1875MHz | — 2165MHz |

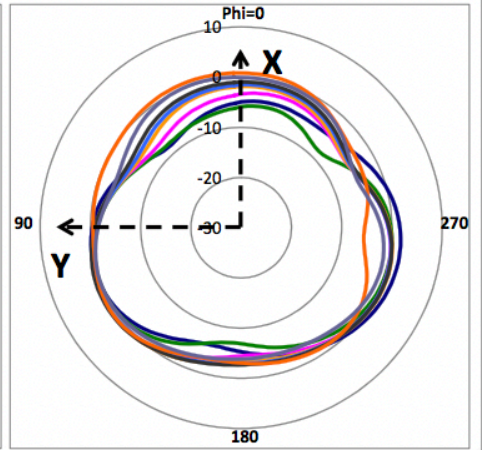
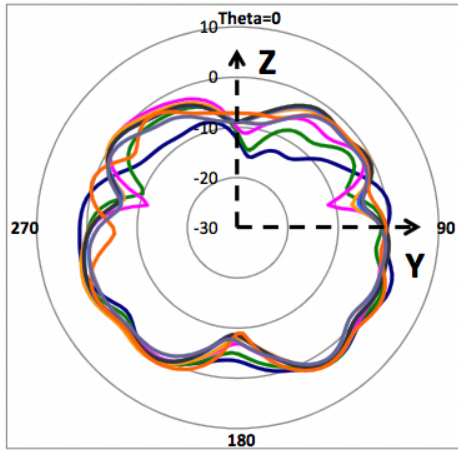
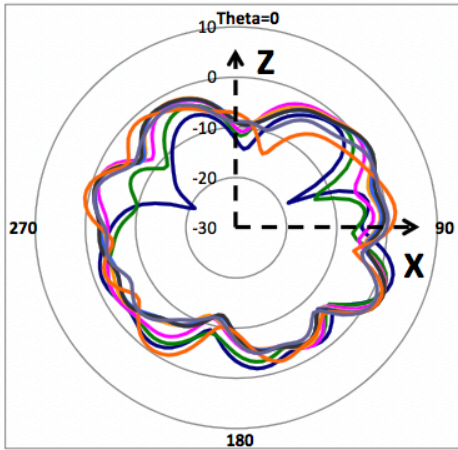


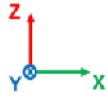


2495 (2300 - 2690) MHz

Main Radiation Pattern

- | | |
|-----------|-----------|
| — 2310MHz | — 2593MHz |
| — 2390MHz | — 2610MHz |
| — 2506MHz | — 2655MHz |
| — 2565MHz | — 2685MHz |

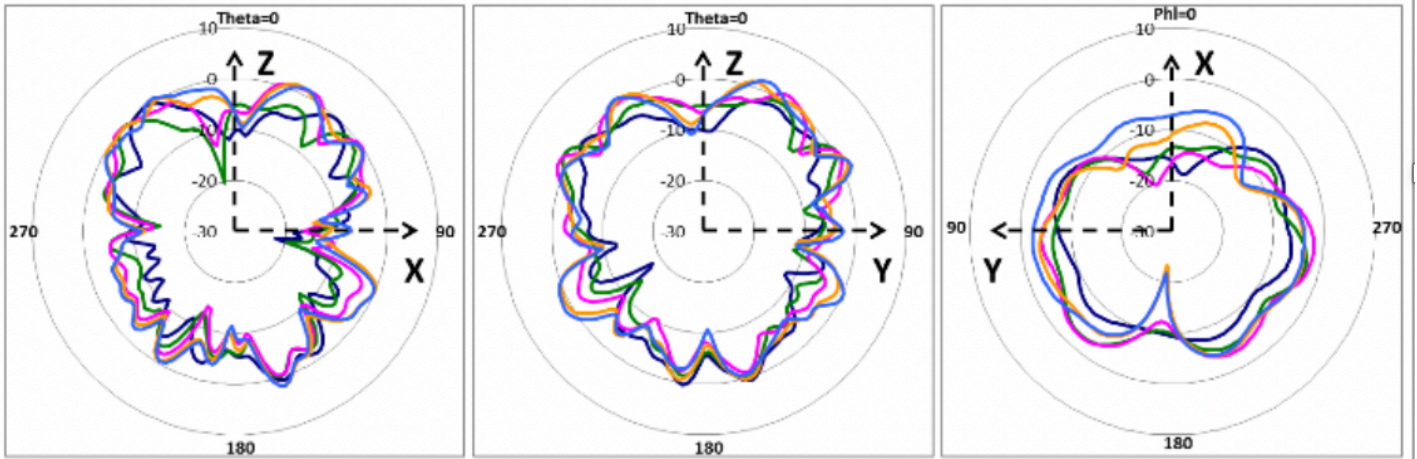


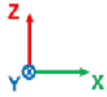


5500 (5150 - 5850) MHz

Main Radiation Pattern

- 5150MHz
- 5350MHz
- 5470MHz
- 5750MHz
- 5850MHz

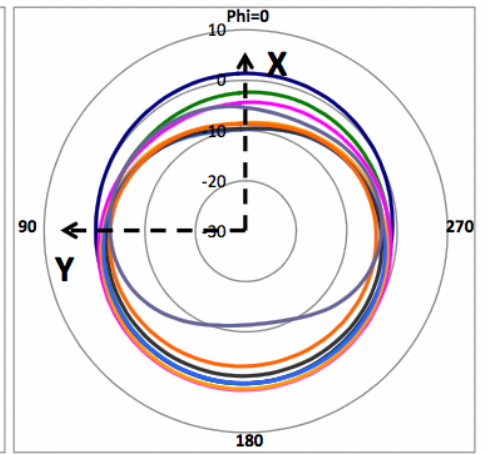
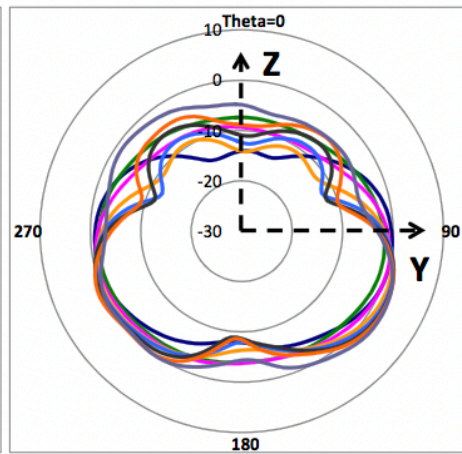
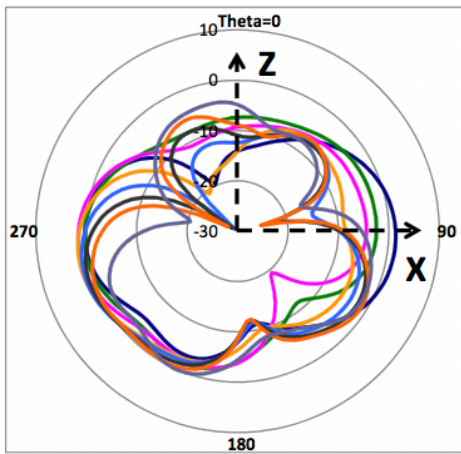
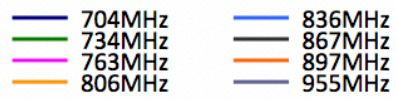


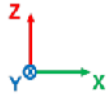


Auxiliary Antenna

829 (698 - 960) MHz

Auxiliary Radiation Pattern

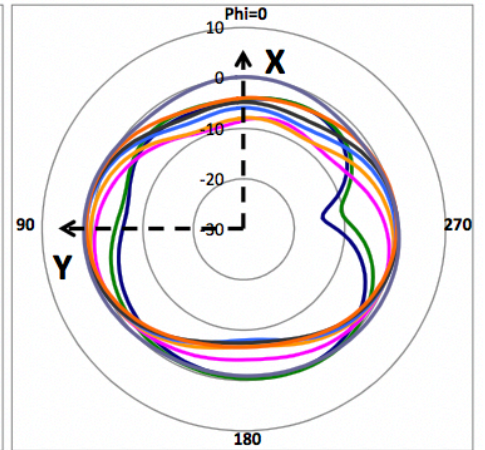
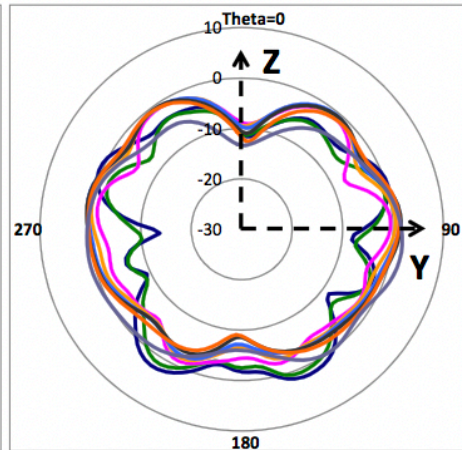
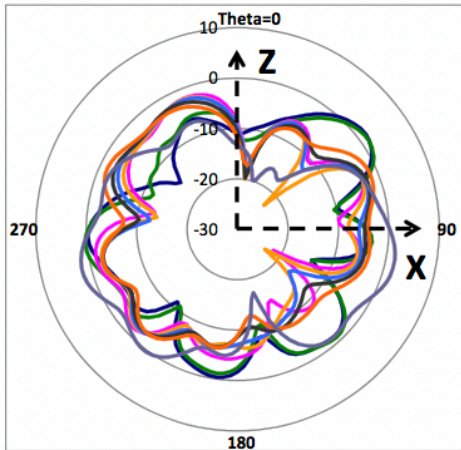




1940 (1710 - 2170) MHz

Auxiliary Radiation Pattern

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|-----------|-----------|
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| — 1747MHz | — 1925MHz |
| — 1842MHz | — 1975MHz |
| — 1875MHz | — 2165MHz |

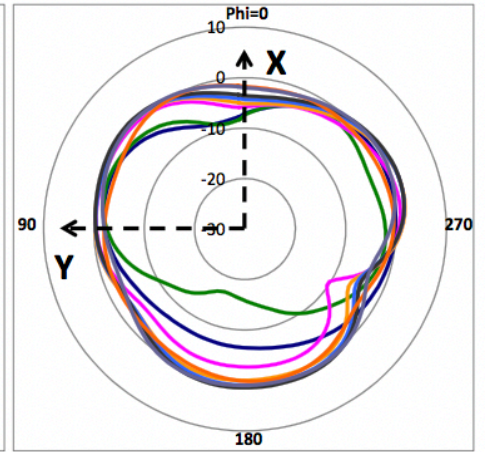
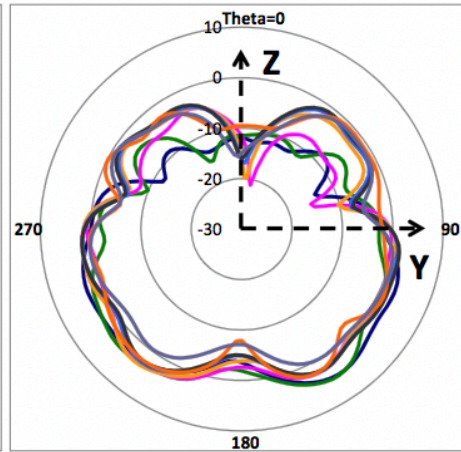
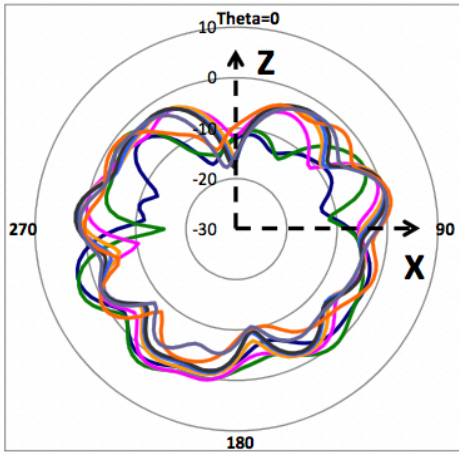




2495 (2300 - 2690) MHz

Auxiliary Radiation Pattern

- | | |
|-----------|-----------|
| — 2310MHz | — 2593MHz |
| — 2390MHz | — 2610MHz |
| — 2506MHz | — 2655MHz |
| — 2565MHz | — 2685MHz |





5500 (5150 - 5850) MHz

**Auxiliary
Radiation Pattern**

- 5150MHz
- 5350MHz
- 5470MHz
- 5750MHz
- 5850MHz

