

MG21 Internal Antenna Datasheet

The internal antenna on the MG21 are enclosed inside for a sleek look while maintaining excellent performance. When in use the internal antenna has a bias towards the front face. The dipole shape of coverage the antennas generally excel at allowing users to place the MG in areas where a directional patch antenna cannot be mounted. A benefit of the internal antenna is the smaller footprint where it will be mounted.



Specifications

Category	Specifications
Electrical	<p>Antenna Type</p> <p>Planar Inverted F Antenna (PIFA)</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 <p>Peak Gain (per range)</p>

	<ul style="list-style-type: none"> • 829 @ 2.9dBi • 1940 @ 4.8dBi • 2495 @ 3.8dBi <p>Polarization</p> <p>Linear, vertical</p> <p>Auxiliary Antenna</p> <p>Frequency Range</p> <ul style="list-style-type: none"> • 829 (698 - 960) MHz • 1940 (1710 - 2170) MHz • 2495 (2300 - 2690) MHz <p>Peak Gain (per range)</p> <ul style="list-style-type: none"> • 829 @ 2.7dBi • 1940 @ 3.8dBi • 2495 @ 3.3dBi <p>Polarization</p> <p>Linear, vertical</p>
Physical and Environmental	<p>MG21 Dimensions</p> <p>160.45 x 160.45 x 34.45mm</p> <p>MG21 Operating Temperature</p> <p>-20°C to 50°C (-4°F to 122°F)</p> <p>Material of Radiator</p> <p>Sheet metal</p>
Regulatory	<p>Certified for use in the MG21</p>

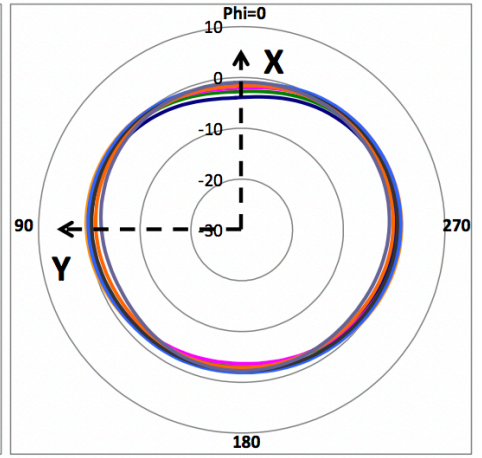
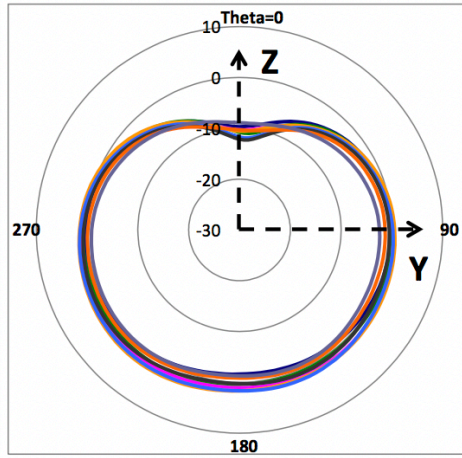
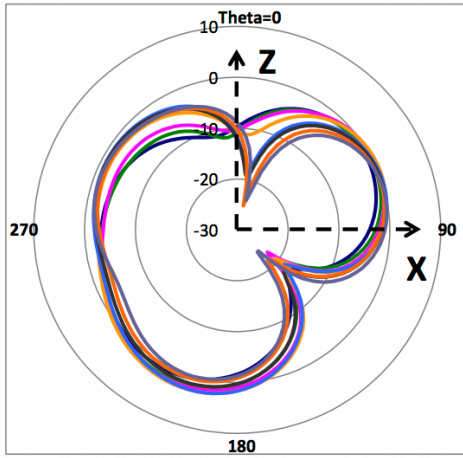
Radiation Patterns

Main Antenna

829 (698 - 960) MHz

Main Radiation Pattern

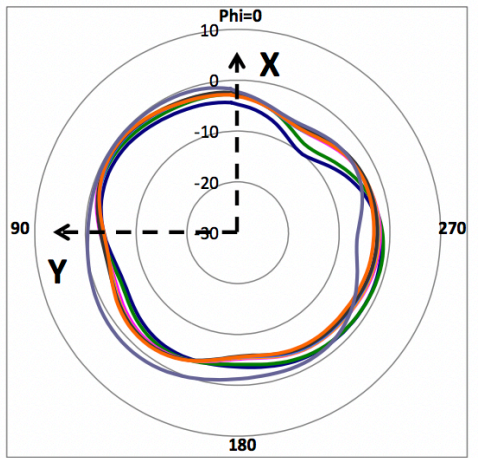
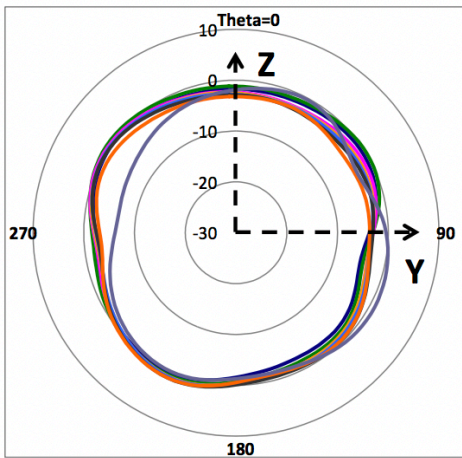
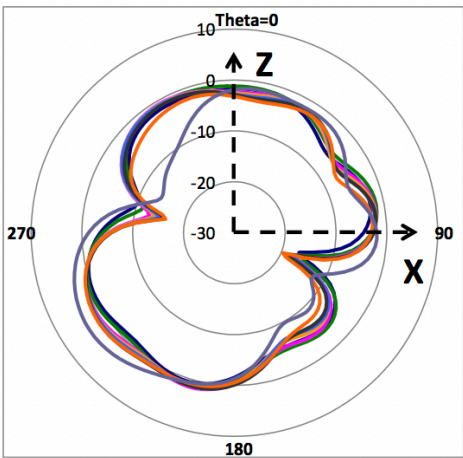
- 704MHz
- 734MHz
- 763MHz
- 806MHz
- 836MHz
- 867MHz
- 897MHz
- 955MHz



1940 (1710 - 2170) MHz

Main Radiation Pattern

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

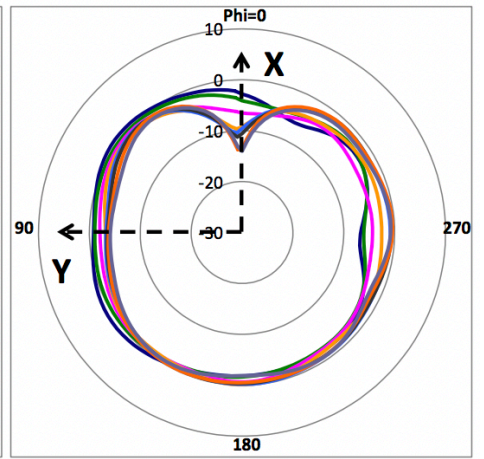
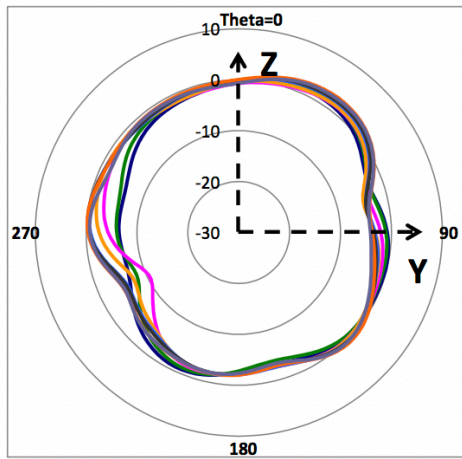
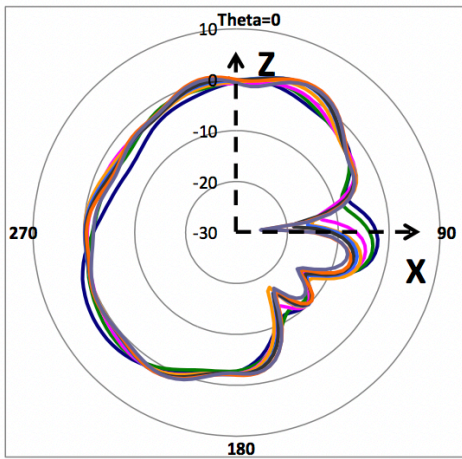




2495 (2300 - 2690) MHz

Main Radiation Pattern

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

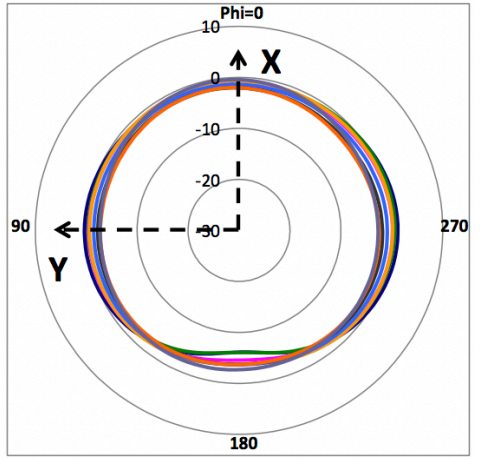
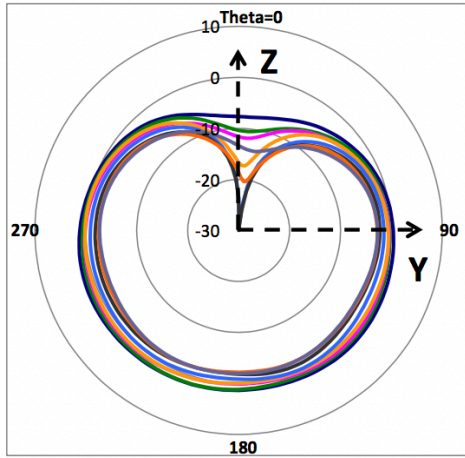
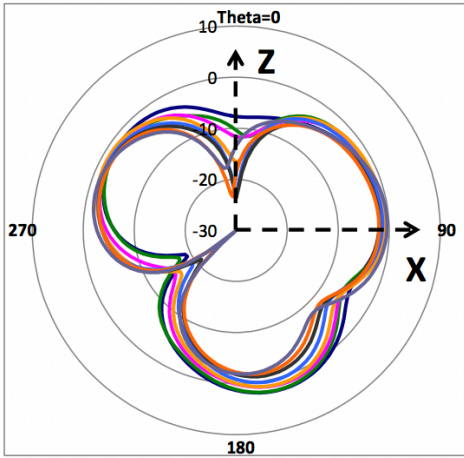


Auxiliary Antenna

829 (698 - 960) MHz

**Auxiliary
Radiation Pattern**

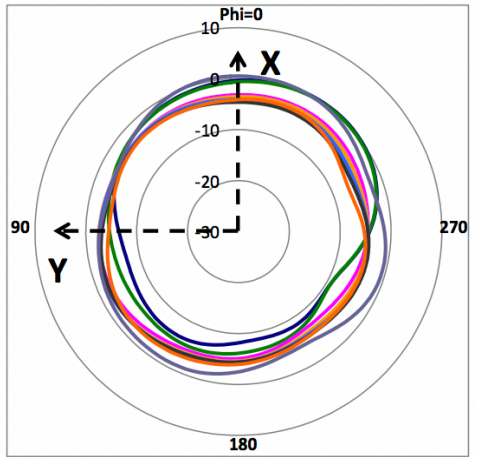
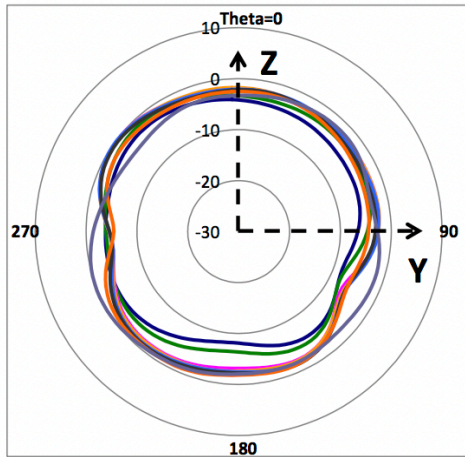
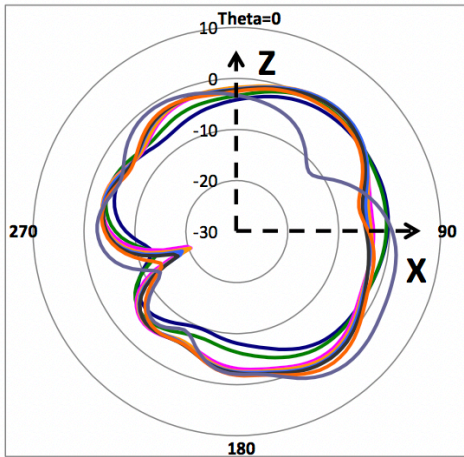
- | | |
|----------|----------|
| — 704MHz | — 836MHz |
| — 734MHz | — 867MHz |
| — 763MHz | — 897MHz |
| — 806MHz | — 955MHz |



1940 (1710 - 2170) MHz

**Auxiliary
Radiation Pattern**

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





2495 (2300 - 2690) MHz

Auxiliary Radiation Pattern

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

