



MM Series

MIMO LTE 2 in 1 Magnetic Mount Antenna

Product Description

Parsec’s PTA-MM-2XLTE-XXX is a compact high performance two-in-one, MIMO LTE based magnetic mount M2M antenna. This rugged omni-directional antenna works on all the common worldwide LTE bands with high efficiency.

Detailed product information and options are available under NDA. Patent pending.

Features

- LTE frequency range: 698 – 960 MHz
1710 – 2700
- 2 Element LTE MIMO
- Omni-directional
- RoHS Compliant

Applications

- External M2M, IoT Applications
- Remote video monitoring, Mobile broadband,
- First Responders / Fleet management

Electrical Specifications

| ID | Port | Parameters | Units | Typ. |
|---------------------|--------|-----------------|-------|--------|
| Radiated Efficiency | 1,2 | 698 – 960 MHz | % | 53 |
| | 1,2 | 1710 – 2700 MHz | | 82 |
| Peak Gain | 1,2 | 698 – 960 MHz | dBi | 2.5 |
| | 1,2 | 1710 – 2700 MHz | | 7.4 |
| Return Loss (50 Ω) | 1,2 | 698 – 960 MHz | dB | ≤6 |
| | 1,2 | 1710 – 2700 MHz | | ≤7 |
| Isolation | 1 to 2 | 698 – 960 MHz | dB | <18 |
| | 1 to 2 | 1710 – 2700 MHz | | <20 |
| Polarization | 1,2 | | | Linear |
| Max Input Power | 1,2 | | Watts | 5 |

Notes:

1. Isolation does not include cable loss.

Mechanical

| | |
|-----------------|--|
| Dimensions | Magnetic Base: 5.5in × 2.5in × 0.5in Antenna: 6.5in × 0.9in × 0.3in |
| RF Cable Length | Choice of 3, 6, 10, 15 ft cable |

Environmental

| | |
|-----------------------|--------------------------------|
| Operating Temperature | -40°C to 85°C |
| Classification | Indoor |
| Relative Humidity | 95% RH, non-condensing at 65°C |



Figure 1. Product Picture

Typical Performance

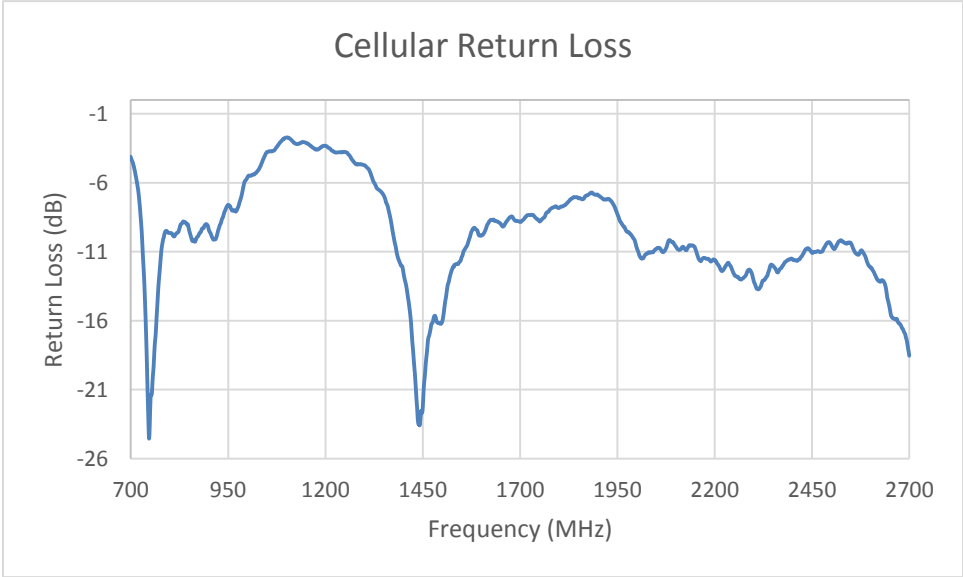


Figure 1. Cellular LTE Return Loss

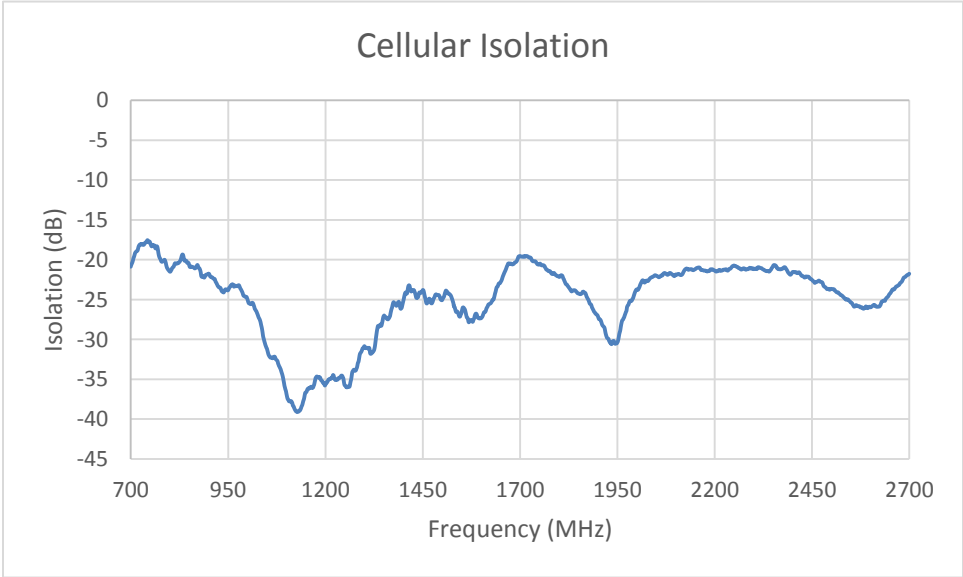


Figure 2. Cellular Isolation

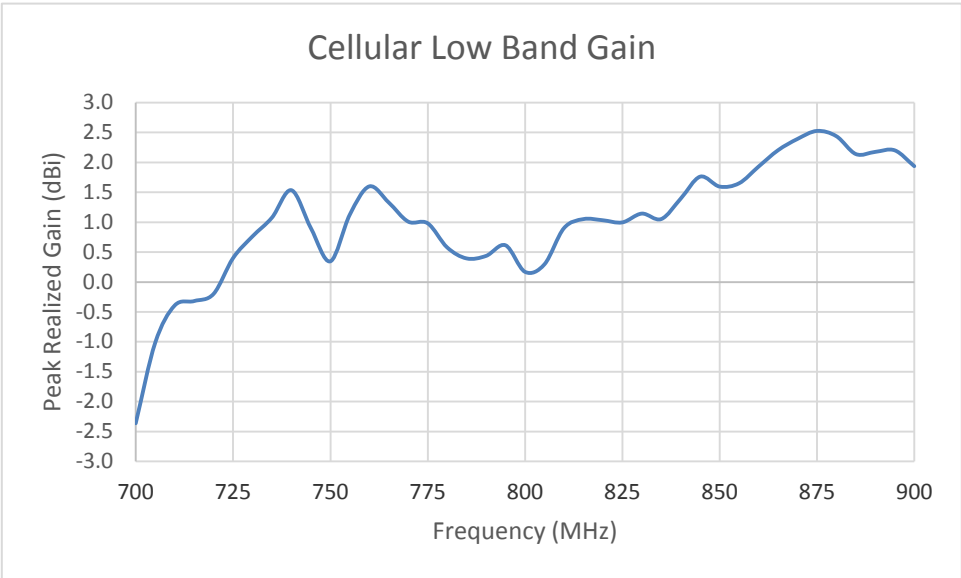


Figure 3. Cellular Low Band Gain

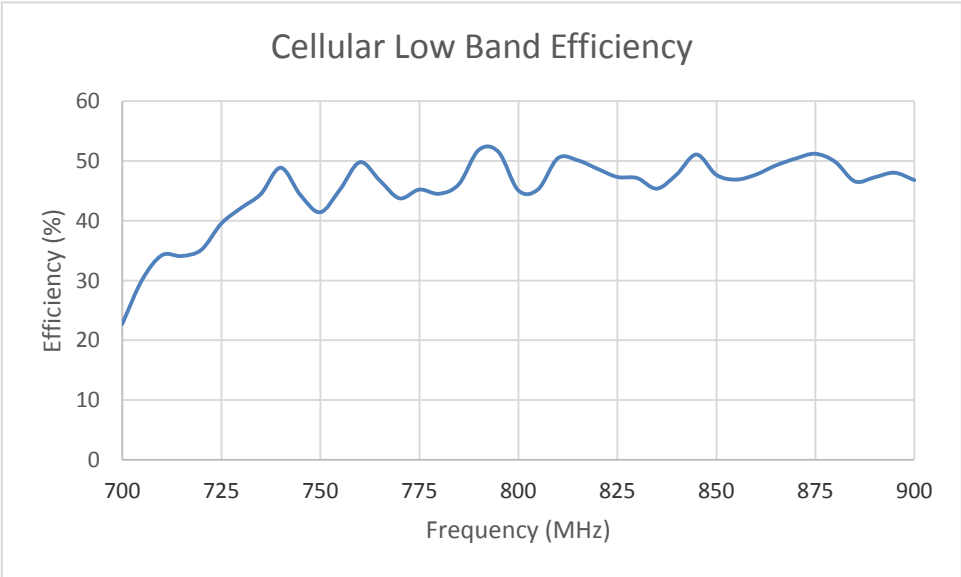


Figure 4. Cellular Low Band Efficiency

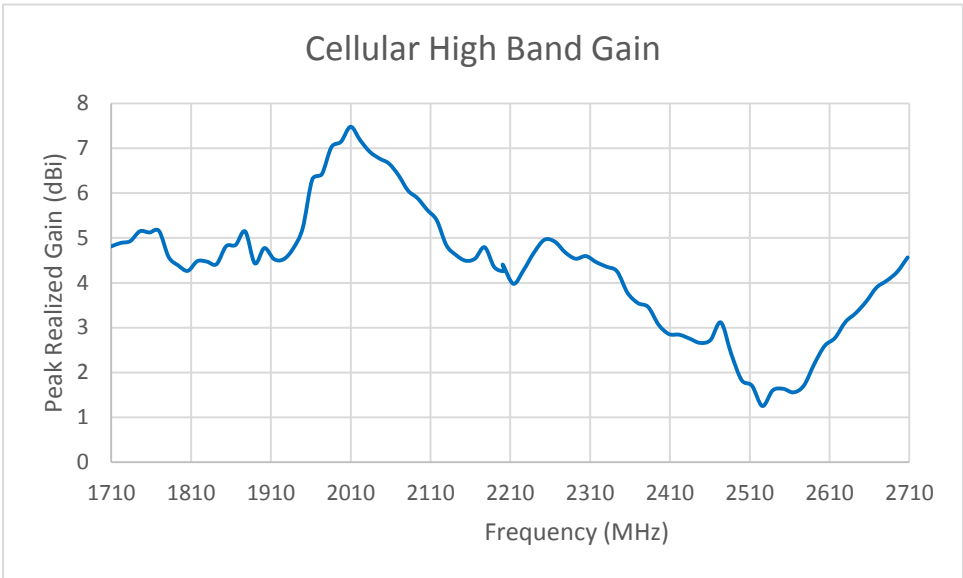


Figure 3. Cellular High Band Gain

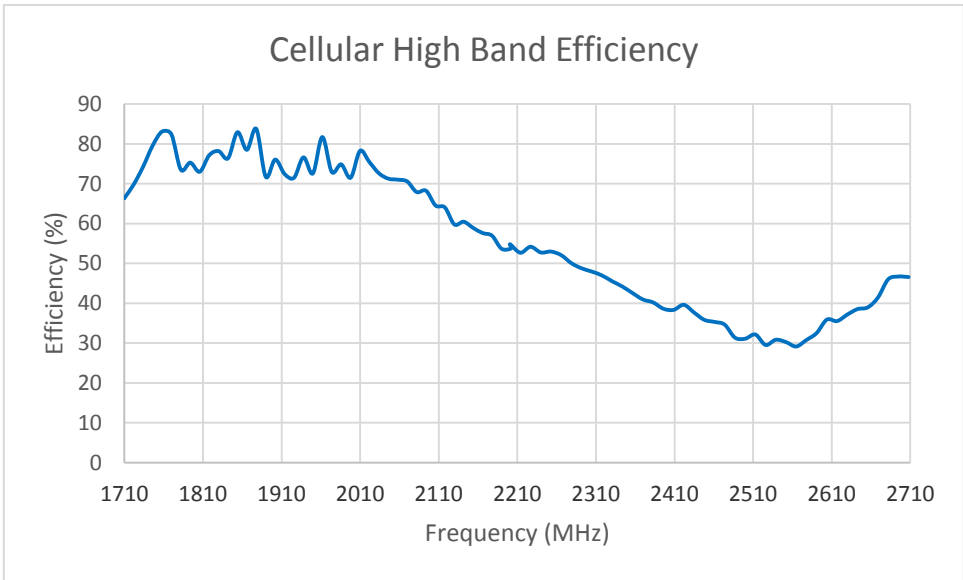


Figure 4. Cellular High Band Efficiency

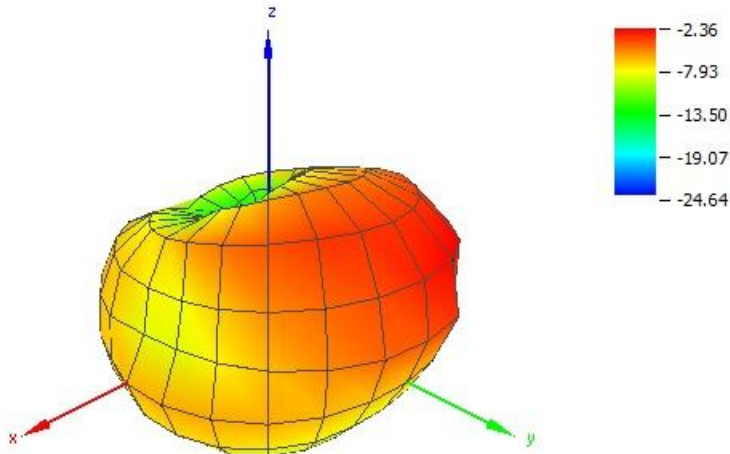


Figure 5. 3D Radiation Pattern at 700MHz

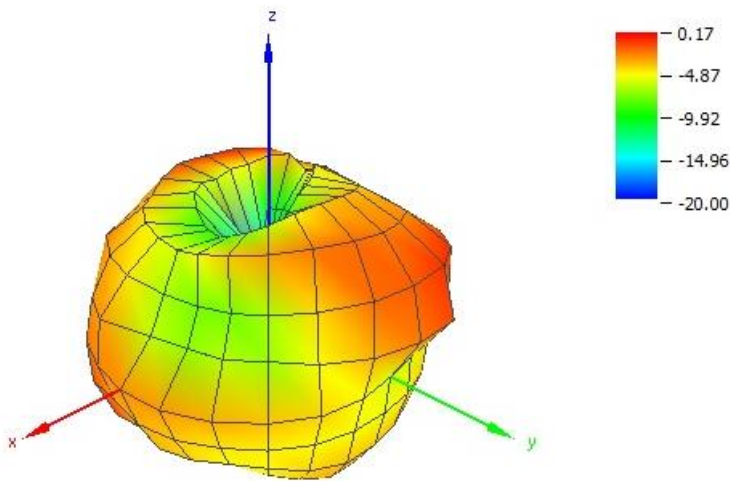


Figure.6 3D Radiation Pattern at 825MHz

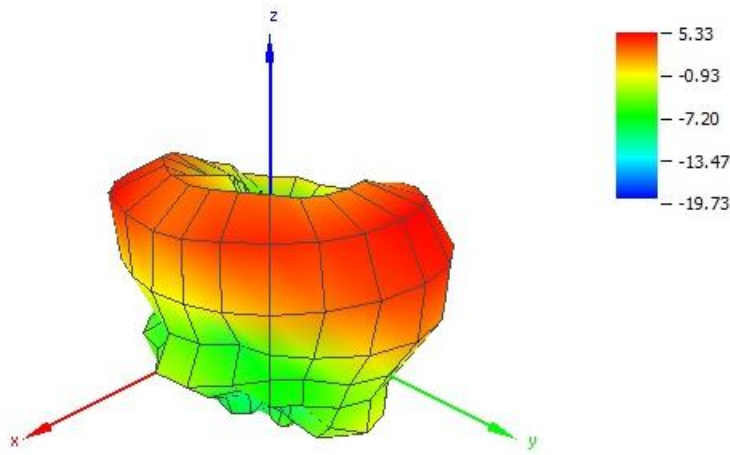


Figure.7 3D Radiation Pattern at 1710MHz

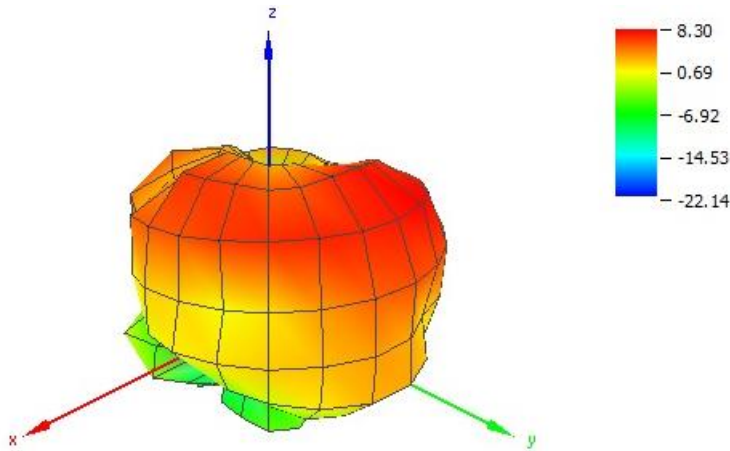


Figure.8 3D Radiation Pattern at 1962MHz

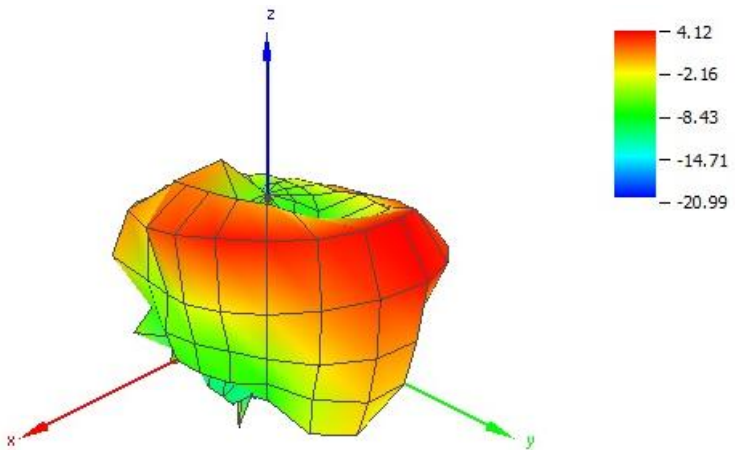


Figure. 9 3D Radiation Pattern at 2201MHz

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Ordering Information

| | | |
|-------------|------------------|---------------------|
| Part Number | PTA-MM-2XLTE-003 | 3 foot long cables |
| | PTA-MM-2XLTE-006 | 6 foot long cables |
| | PTA-MM-2XLTE-010 | 10 foot long cables |
| | PTA-MM-2XLTE-015 | 15 foot long cables |

Custom cable lengths available

Packing for Shipment Protective box, qty. 1 per box.