MATSING®

LENS TECHNOLOGY ENABLED

# MS-MBA-5-F4

**Lens Technology Enabled™ Multi-Beam Base-Station Antenna utilizes a patented lens design with 5 isolated CBRS-frequency (3300 - 4200MHz) cross-polarized beams. Each beam has 4 cross-polarized ports for supporting 4X4 MIMO.**

**Tilt is adjustable from 0° to 20° for each beam.**

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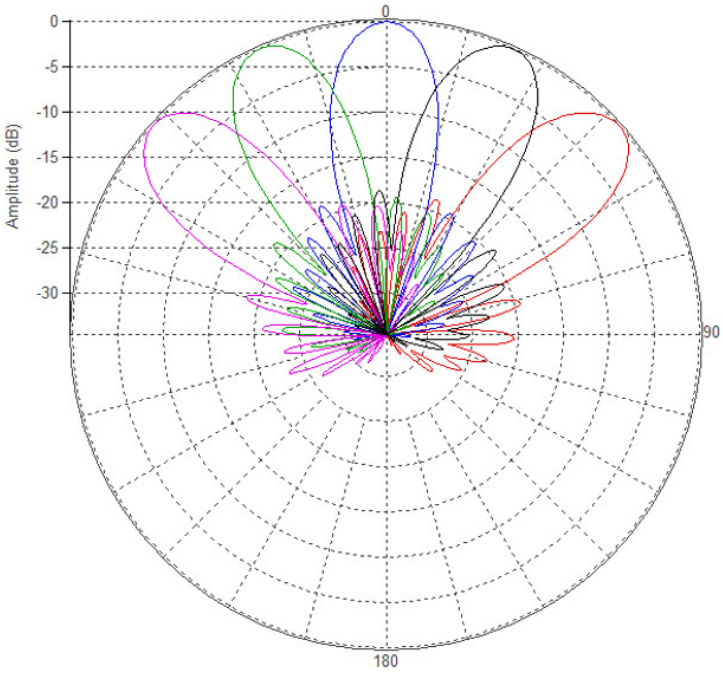
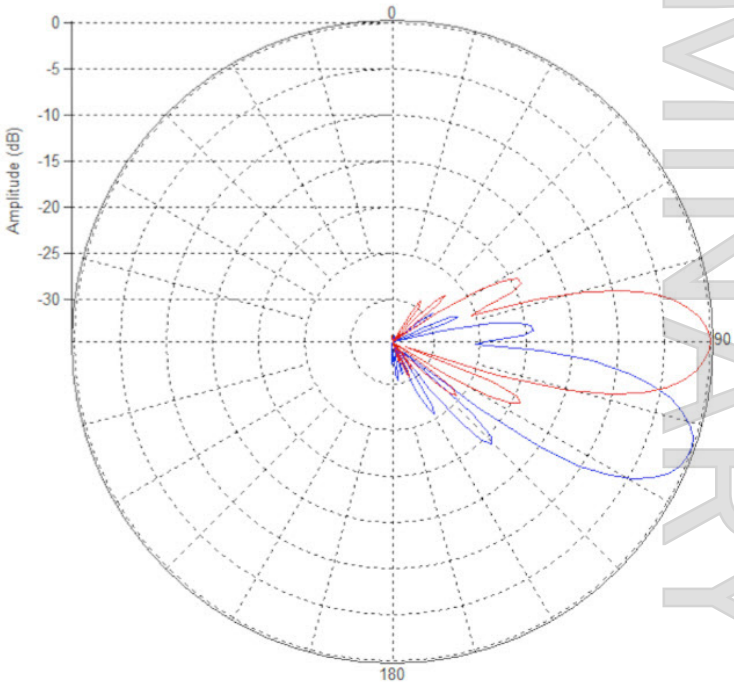
PRELIMINARY

## PATTERN RESULTS:

**CBRS-Band Horizontal Beam Pattern (3.5GHz)**




**CBRS-Band Vertical Pattern at 0° and 20° Tilt (3.5GHz)**



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| TECHNICAL SPECIFICATIONS | |
|---|---|
| Frequency | 3300 MHz – 4200 MHz |
| Gain | 20dBi |
| Return Loss | > 15dB |
| VSWR | <1.5:1 |
| Polarization | Dual Slant ±45° |
| Horizontal Coverage | 120° |
| Horizontal Beamwidth (10dB level)<br>Horizontal Beamwidth (3dB level) | 27°<br>15° |
| Vertical Beamwidth (10dB level)<br>Vertical Beamwidth (3dB level) | 27°<br>15° |
| Beam Cross-over | 6 - 8dB typical |
| Total Number of Beams | 5 |
| Number of Ports per Beam | 4 |
| Number of Ports Total | 20 |
| Tilt Per Cross-Pol | 0°- 20° |
| First Sidelobe level | < -18dB |
| Front to Back Ratio | >28dB |
| Isolation Port to Port - Polarization | >28dB |
| Isolation Port to Port - Beam | >28dB |
| Power Rating | 150W per port |
| Intermodulation | <-153dBc |
| Impedance | 50 ohm |
| Connector Quantity and Type | 20 x 4.3-10 female |

| MECHANICAL DATA | |
|---|---|
| Dimensions (H x W x D) | 94 x 61 x 63 cm<br>37 x 24 x 25 inch |
| Antenna Weight | 30kg<br>66lbs |
| Radome Material | Fibre Glass |
| Mounting | Standard pipe mount<br>Compatible pipe diameter:<br>6.1 – 11.4 cm<br>2.4 – 4.5 inch |

| ENVIRONMENTAL RATINGS | |
|---|---|
| Humidity | 95% RH @ +30°C |
| Temperature | -40°C to +70°C |
| Wind Load (Lateral) | 119 lbf @ 150km/hr<br>530N @ 150km/hr |
| Wind Load (Frontal) | 83 lbf @150km/hr<br>369 N @150km/hr |



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