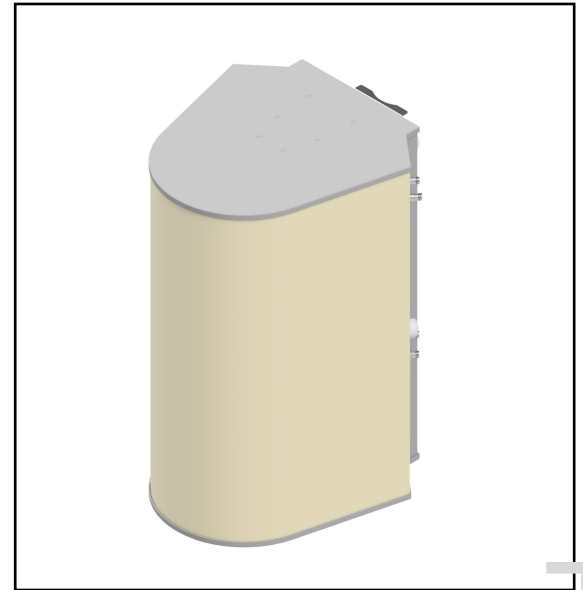


## MS-MBA-3.2-H2-T2

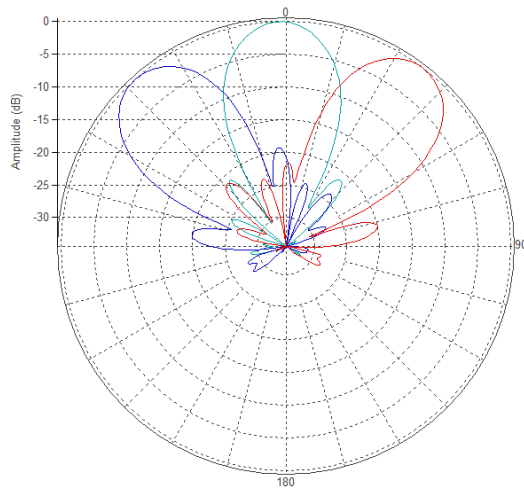
### Multi-beam Base-Station Antenna (MBA)

**Lens Technology Enabled™ Multi-Beam Base-Station Antenna** perfect for 6 to 9 high-band sector LTE cell site deployments and 3 to 6 low-band sector LTE cell site deployments for best CINR results. Utilizes a patented spherical lens design with 3 isolated high-frequency (1695-2690MHz) cross-polarized beams and 2 isolated low-frequency (617-896MHz) cross-polarized beams. Each beam has 2 ports. There are two independent tilt settings per beam (0-30° for HB and 0-40° for LB) tilt for each pair of cross-polarized elements.

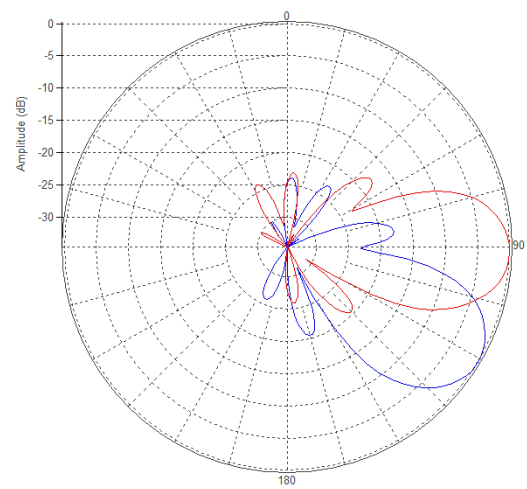


#### PATTERN RESULTS:

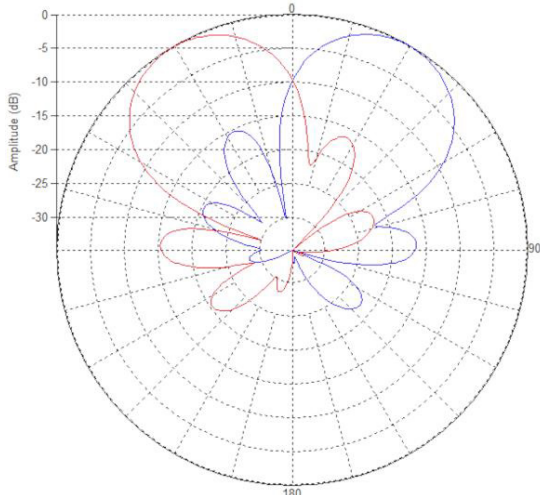
**High-Band Horizontal Pattern (1.80GHz)**



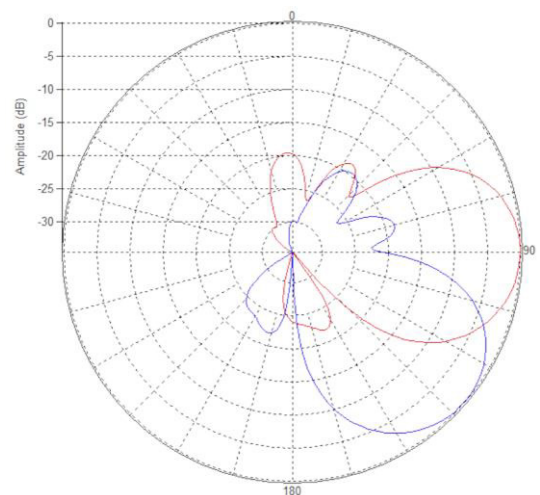
**High-Band Vertical pattern 0° tilt and 30° tilt (1.80GHz)**



**Low-Band Horizontal Pattern (750MHz)**



**Low-Band Vertical Pattern 0° tilt and 40° tilt (750MHz)**



### TECHNICAL SPECIFICATIONS PER BEAM

|                                       |                           |                           |
|---------------------------------------|---------------------------|---------------------------|
| Frequency                             | 1695-2690 MHz             | 617-896 MHz               |
| Gain                                  | 17.5dBi                   | 14.2dBi                   |
| VSWR                                  | <1.5:1                    | <1.5:1                    |
| Polarization                          | Dual Slant $\pm 45^\circ$ | Dual Slant $\pm 45^\circ$ |
| Horizontal Coverage                   | 120°                      | 120°                      |
| Horizontal Beamwidth (10dB level)     | 40°                       | 60°                       |
| Horizontal Beamwidth (3dB level)      | 23°                       | 34°                       |
| Vertical Beamwidth (10dB level)       | 40°                       | 60°                       |
| Vertical Beamwidth (3dB level)        | 23°                       | 34°                       |
| Beam Cross-over                       | 10dB typical              | 10dB typical              |
| Total Number of Beams                 | 3                         | 2                         |
| Number of Ports per Beam              | 2                         | 2                         |
| Number of Ports Total                 | 6                         | 4                         |
| Tilt Per Cross-Pol                    | 0° to 30°                 | 0° to 40°                 |
| First Sidelobe Level                  | <-16dB                    | <-15dB                    |
| Front to Back Ratio                   | >28dB                     | >28dB                     |
| Isolation Port to Port - Polarization | >28dB                     | >28dB                     |
| Isolation Port to Port - Beam         | >28dB                     | >26dB                     |
| Power Rating                          | 200W per port             | 250W per port             |
| Intermodulation                       | <-153dBc                  | <-153dBc                  |
| Impedance                             | 50 ohm                    | 50 ohm                    |
| Connector Quantity and Type           | 6X4.3-10 female           | 3X4.3-10 female           |

### MECHANICAL DATA

|                        |   |
|------------------------|---|
| Dimensions (H x W x D) | 94 x 61 x 66 cm<br>37 x 24 x 26 inch  |
| Antenna Weight         | 35 kg<br>77lbs  |
| Radome Material        | Fiber Glass   |
| Mounting               | Standard position<br>pipe mount<br><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 @ 150km/h | Frontal: 701 N/157 lbf<br>Lateral: 1007 N/226 lbf |

### CONNECTOR LAYOUT:

