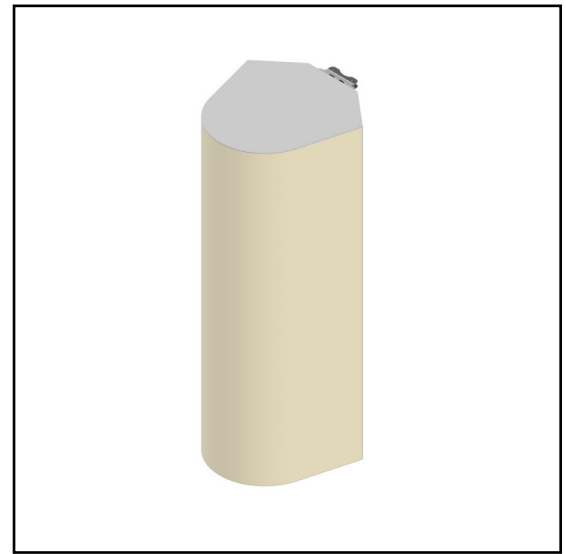


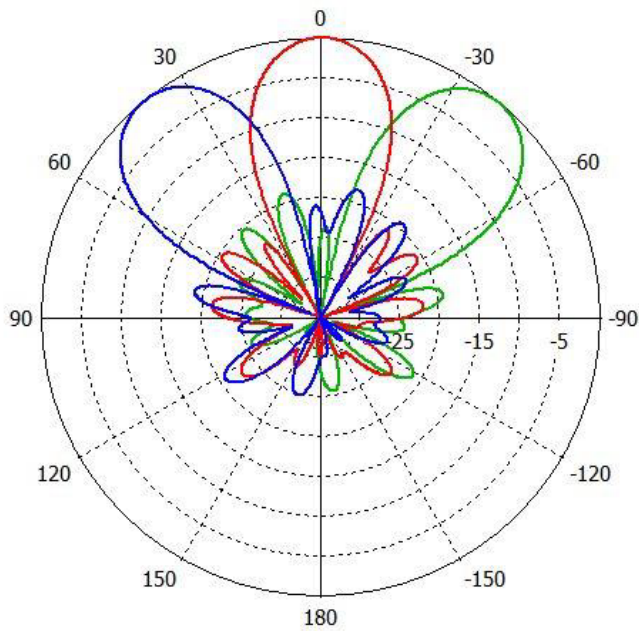
## MS-MBC-3-T4-16

**Multi-Beam Cylindrical Base-Station Lens Antenna;**  
**Three isolated Low frequency (617 - 896 MHz) cross-polarized beams.**  
**Each beam has four ports to support 2x2 MIMO.**  
**RET (Smart Bias Tee & AISG 2.0) with 2°-15° for each beam.**

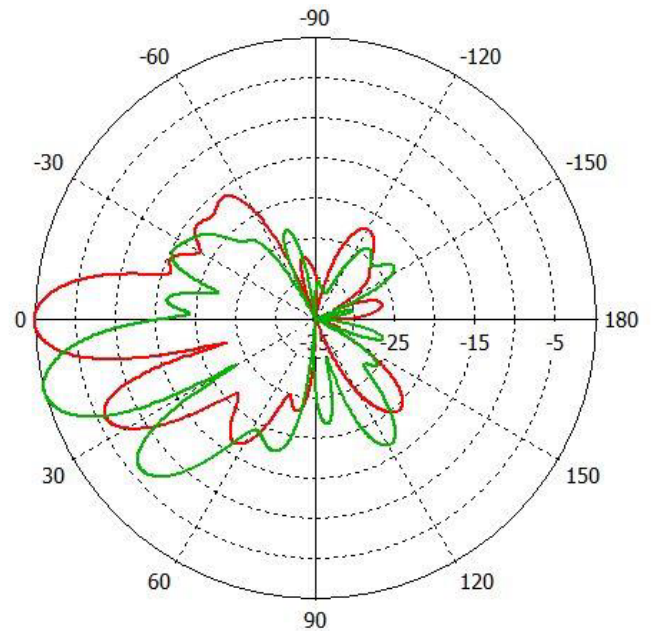


### PATTERN RESULTS:

**Horizontal Pattern (800MHz)**



**Vertical Pattern at 2° tilt and 15° tilt (800MHz)**



### TECHNICAL SPECIFICATIONS

|                                       |                           |
|---------------------------------------|---------------------------|
| Frequency                             | 617 - 896 MHz             |
| Gain                                  | 17dBi                     |
| VSWR                                  | <1.5:1                    |
| Polarization                          | Dual Slant $\pm 45^\circ$ |
| Horizontal Coverage                   | 120°                      |
| Horizontal Beamwidth (10dB level)     | 40°                       |
| Horizontal Beamwidth (3dB level)      | 24°                       |
| Vertical Beamwidth (3dB)              | 16°                       |
| Beam Cross-over                       | 10dB typical              |
| Total Number of Beams                 | 3                         |
| Number of Ports per Beam              | 4                         |
| Number of Ports Total                 | 12                        |
| RET                                   | 2° to 15°                 |
| First Sidelobe level                  | < -15dB                   |
| Front to Back Ratio                   | >28dB                     |
| Isolation Port to Port - Polarization | >28dB                     |
| Isolation Port to Port - Beam         | >26dB                     |
| Power Rating                          | 150W per port             |
| Intermodulation                       | <-153dBc                  |
| Impedance                             | 50 ohm                    |
| Connector Quantity and Type           | 12 x 4.3-10 female        |

### MECHANICAL DATA

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Dimensions (H x W x D) | 245 x 96.7 x 106 cm<br>96.4 x 38.1 x 41.8 inch                                            |
| Antenna Weight         | 127.5 kg<br>281 lbs                                                                       |
| Radome Material        | Fiber Glass                                                                               |
| Mounting               | Standard position pipe mount<br>Compatible pipe diameter:<br>10.1 – 15.2 cm<br>4 – 6 inch |

### ENVIRONMENTAL RATINGS

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Humidity            | 95% RH @ +30°C                                                              |
| Temperature         | -40°C to +70°C                                                              |
| Wind load @ 150km/h | N/lbf<br>Frontal: 1647/370.3<br>Lateral: 2334 / 524.7<br>Rear: 1931 / 434.1 |

### CONNECTOR LAYOUT:

