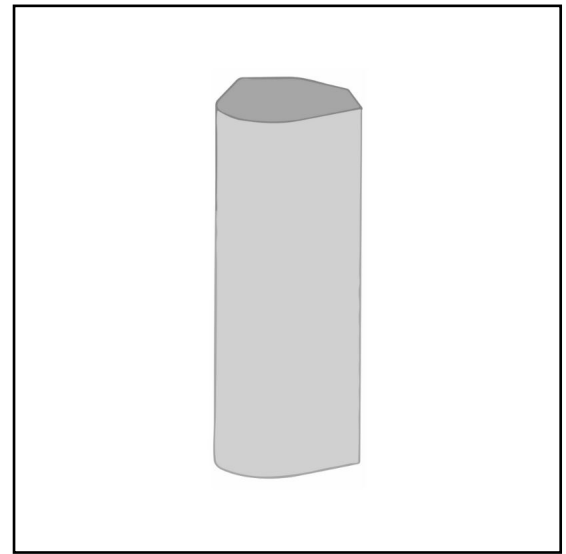


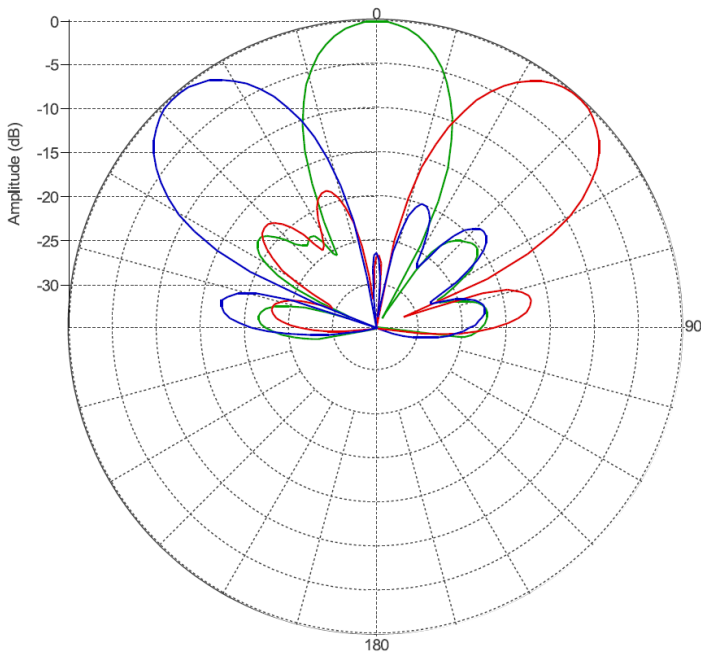
MS-MBC-3-H4-12

Multi-Beam Cylindrical Base-Station Lens Antenna;
Three isolated high frequency (1695 - 2690 MHz) cross-polarized
beams. Each beam has four ports to support 4x4 MIMO. RET
(Smart Bias Tee & AISG 2.0) with 2-15° for each beam.

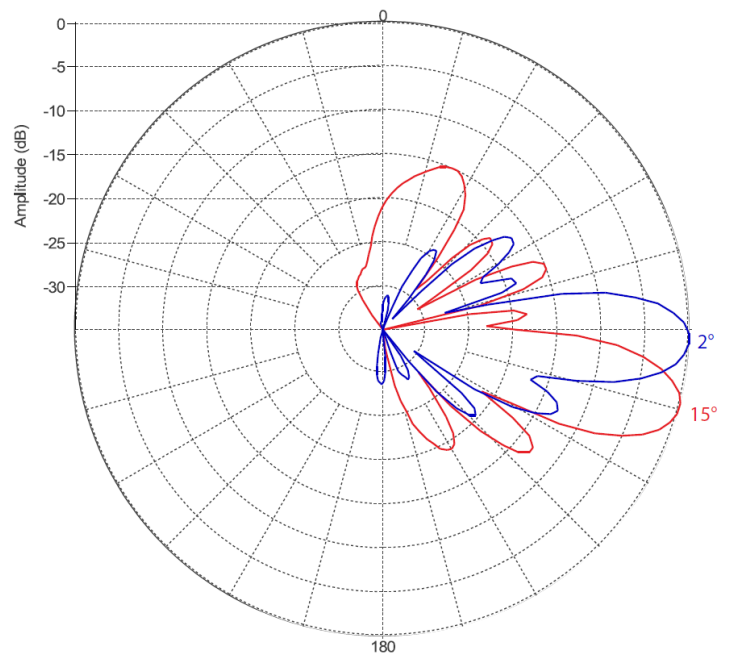


PATTERN RESULTS:

High-Band Horizontal Pattern (1.80GHz)



Vertical pattern at 2° tilt and 15° tilt (1.80GHz)



TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|--------------------|
| Frequency | 1695 - 2690 MHz |
| Gain | 18.5 dBi |
| VSWR | <1.5:1 |
| Polarization | Dual Slant ±45° |
| Horizontal Coverage | 120° |
| Horizontal Beamwidth (3dB level) | 23° |
| Horizontal Beamwidth (10dB level) | 40° |
| Vertical Beamwidth (3dB) | 12.5° |
| Total Number of Beams | 3 |
| Number of Ports per Beam | 4 |
| Number of Ports Total | 12 |
| RET | 2° to 15° |
| First Upper Sidelobe level | < -15dB |
| Azimuth Sidelobe level | < -15dB |
| Front to Back Ratio | >28dB |
| Isolation Port to Port - Polarization | 28dB |
| Isolation Port to Port - Beam | 25dB |
| Power Rating | 200W 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) | 124 x 48.2 x 55.6 cm 48.8 x 19 x 21.9 inch |
| Antenna Weight | 30 kg 66.1 lbs |
| Radome Material | Fiber Glass |
| Mounting | 2 position pipe mount Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch |

ENVIRONMENTAL RATINGS

| | |
|---------------------|----------------|
| Humidity | 95% RH @ +30°C |
| Temperature | -40°C to +70°C |
| Wind load @ 150km/h | TBD |

CONNECTOR LAYOUT:

