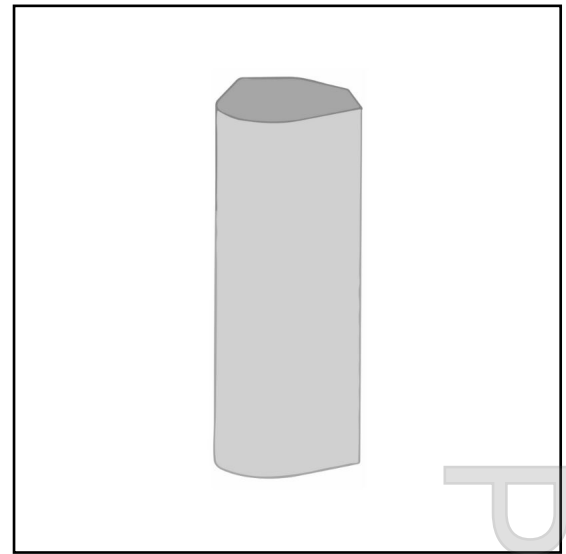


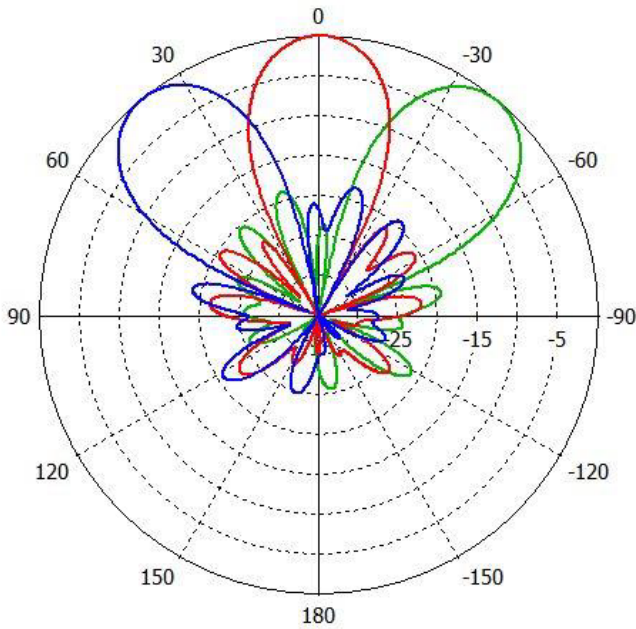
MS-MBC-3-L2-16

Multi-Beam Cylindrical Base-Station Lens Antenna;
Three isolated Low frequency (698 - 960 MHz) cross-polarized beams.
Each beam has two ports to support 2x2 MIMO.
RET (Smart Bias Tee & AISG 2.0) with 2°-15° for each beam.

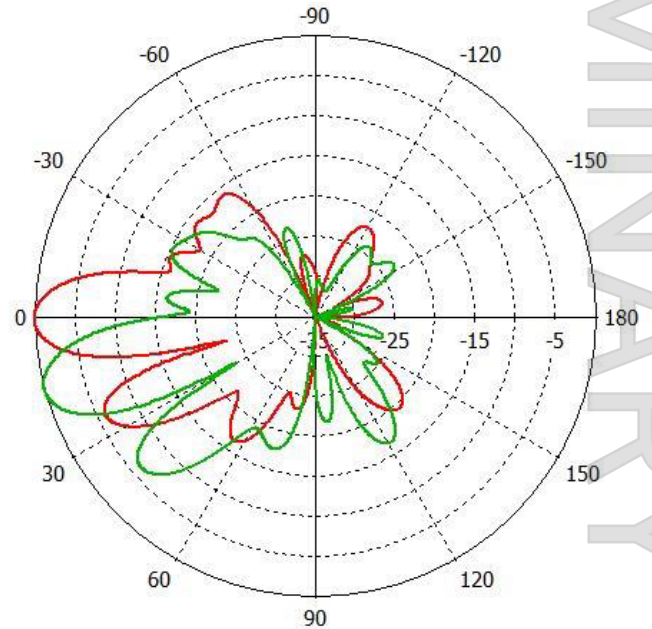


PATTERN RESULTS:

Horizontal Pattern (800MHz)



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



PRELIMINARY

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|-------------------|
| Frequency | 698 - 960 MHz |
| Gain | 17dBi |
| VSWR | <1.5:1 |
| Polarization | Dual Slant ±45° |
| 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 | 2 |
| Number of Ports Total | 6 |
| 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 | 6 x 4.3-10 female |

MECHANICAL DATA

| | |
|------------------------|---|
| Dimensions (H x W x D) | 122 x 80 x 93 cm 48 x 31.5 x 36.6 inch |
| Antenna Weight | 45 kg 99 lbs |
| Radome Material | Fiber Glass |
| Mounting | Standard position pipe mount Compatible pipe diameter: 10.1 – 15.2 cm 4 – 6 inch |

ENVIRONMENTAL RATINGS

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