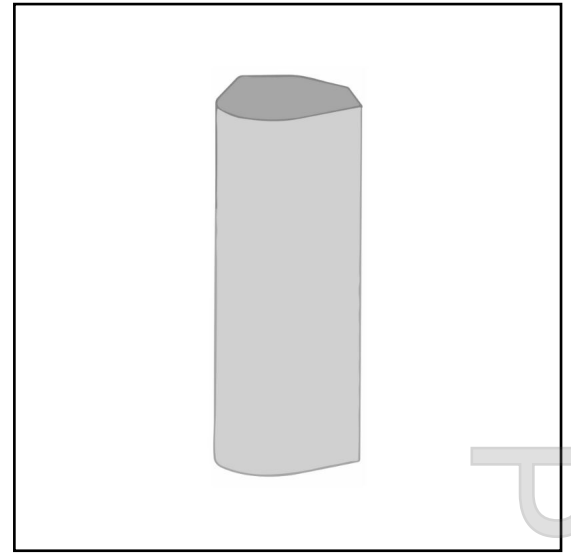


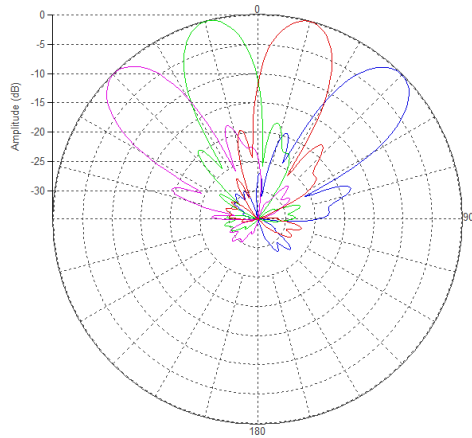
MS-MBC-4.2-H4-8-L4-16

Multi-Beam Dual Band Cylindrical Lens Antenna:
4 independent high-frequency (1695 - 2690 MHz) dual-polarized beams
and 2 independent low-frequency (698 - 960 MHz) dual-polarized beams
with 4x4 MIMO support. Each beam has independent RET, for high
frequency 2° - 12° and for low frequency 2° - 17°.

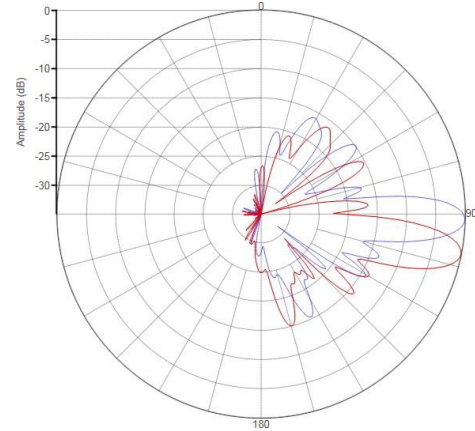


PATTERN RESULTS:

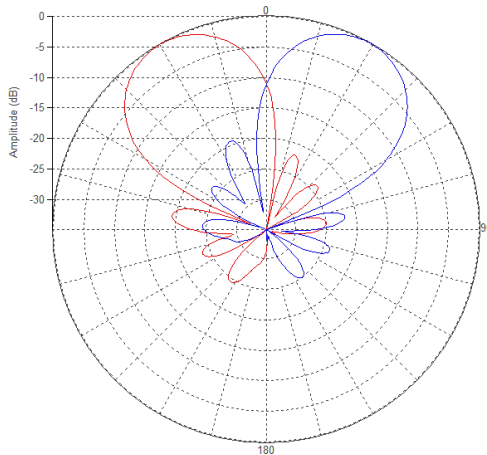
High-band Horizontal Pattern (1.92GHz)



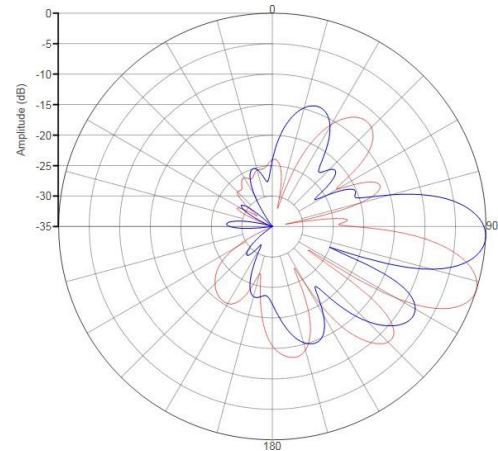
High-band Vertical Pattern (1.92GHz) at tilt 2° and 12°



Low-band Horizontal Pattern (0.8GHz)



Low-band Vertical Pattern (0.8GHz) at tilt 2° and 17°



PRELIMINARY

TECHNICAL SPECIFICATIONS PER BEAM

| | | |
|---------------------------------------|-------------------|--------------------|
| Frequency | 698-960 MHz | 1695-2690 MHz |
| Gain | 15dBi | 21dBi |
| VSWR | <1.5:1 | <1.5:1 |
| Polarization | Dual Slant ±45° | Dual Slant ±45° |
| Horizontal Coverage | 120° | 120° |
| Horizontal Beamwidth (10dB level) | 60° | 31° |
| Horizontal Beamwidth (3dB level) | 34° | 18° |
| Vertical Beamwidth (3dB level) | 16° | 8° |
| Beam Cross-over | 10dB typical | 10dB typical |
| Total Number of Beams | 2 | 4 |
| Beam Tilt | 2° to 17° | 2° to 12° |
| First Sidelobe Level | <-15dB | <-15dB |
| Front to Back Ratio | >28dB | >28dB |
| Isolation Port to Port - Polarization | >26dB | >26dB |
| Isolation Port to Port - Beam | >26dB | >28dB |
| Power Rating | 250W per port | 200W per port |
| Intermodulation | <-153dBc | <-153dBc |
| Impedance | 50 ohm | 50 ohm |
| Connector Quantity and Type | 8 x 4.3-10 female | 16 x 4.3-10 female |

MECHANICAL DATA

| | |
|------------------------|---|
| Dimensions (H x W x D) | 232 x 61.7 x 72.3 cm 91 x 24.3 x 28.5 inch |
| Antenna Weight | 80 kg 176 lbs |
| Radome Material | Fiber Glass |
| Mounting | Adjustable Clamps 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 loading @ 150km/h | Frontal: 950 N / 214 lbf Lateral: 1480 N / 334 lbf Rear: 1364 N / 308 lbf |