

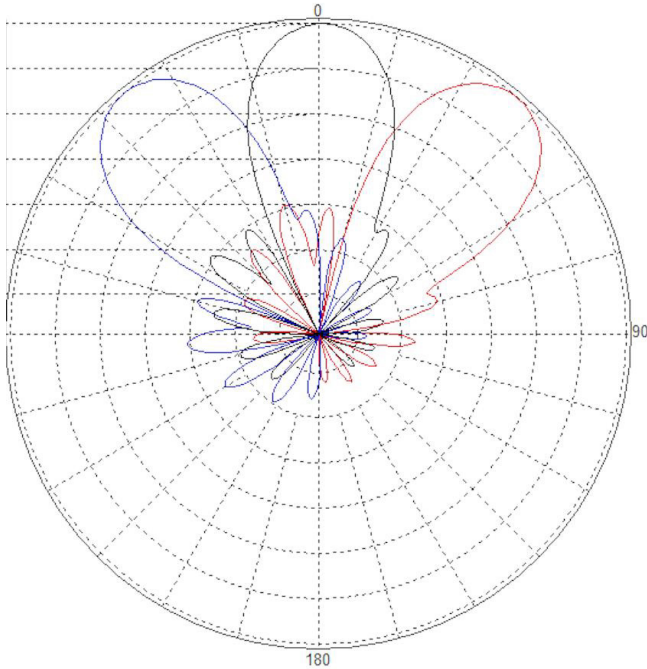
MS-MBA-2

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 3 to 9 sector LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated high-frequency (1695 – 2690 MHz) cross-polarized beams. Each beam has 2 cross-polarized ports for supporting 2X2 MIMO. Tilt is adjustable from 0 - 30° for each beam. High tilt provides null at horizon.

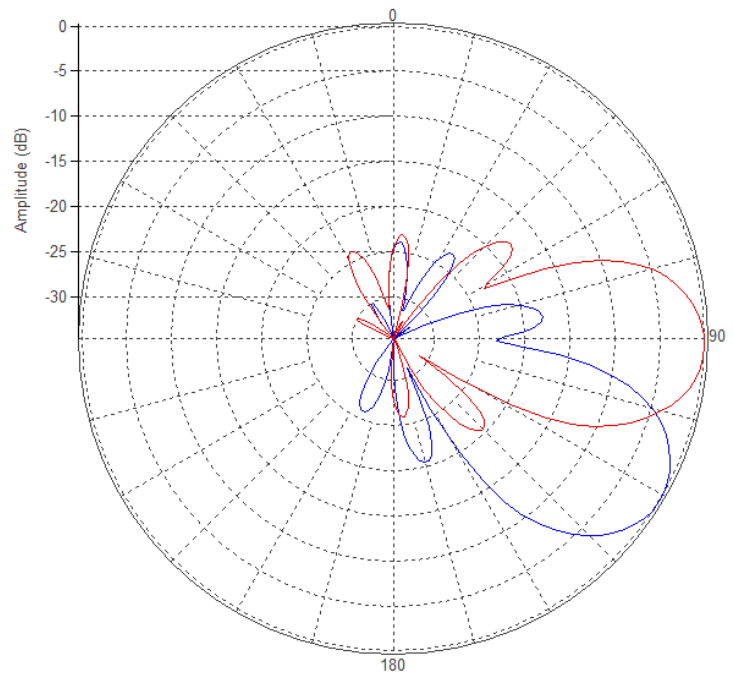


PATTERN RESULTS:

Horizontal Pattern (1.80GHz)



Vertical pattern 0° tilt and 30° tilt (1.80GHz)



TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|-------------------|
| Frequency | 1695 – 2690 MHz |
| Gain | 17.8dBi |
| VSWR | <1.5:1 |
| Polarization | Dual Slant ±45° |
| Horizontal Coverage | 120° |
| Horizontal Beamwidth (10dB level) | 40° |
| Horizontal Beamwidth (3dB level) | 23° |
| Vertical Beamwidth (10dB level) | 40° |
| Vertical Beamwidth (3dB level) | 23° |
| Beam Cross-over | 10dB typical |
| Total Number of Beams | 3 |
| Number of Ports per Beam | 2 |
| Number of Ports Total | 6 |
| Tilt Per Cross-Pol | 0° to 30° |
| First Sidelobe level | <-16dB |
| Front to Back Ratio | >28dB |
| Isolation Port to Port - Polarization | >28dB |
| Isolation Port to Port - Beam | >28dB |
| Power Rating | 200W 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) | 52.5 x 60.7 x 67.8 cm 20.7 x 23.9 x 26.7 inch |
| Dimensions (H x W x D) w / brackets: | 53 x 62 x 60 cm 21 x 24.5 x 24 inch |
| Antenna Weight | 21.28 kg 46.9 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/hr | N / lbf Frontal 225 / 50.6 Lateral 323 / 72.6 Rear 264 / 59.4 |

CONNECTOR/BEAM LAYOUT:

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PLAN VIEW CONNECTOR LAYOUT

