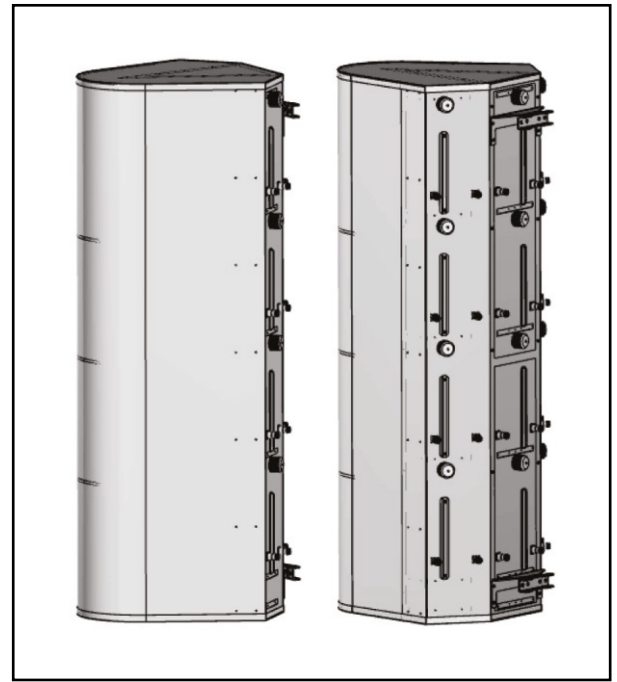


MS-MBA-3-H8A2

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 6 to 9 sector LTE cell site deployments for best CINR results . Utilizes a patented spherical lens design with 3 isolated high-frequency (1695 – 2690 MHz) cross-polarized beams . Each beam is made of four independent antennas and has 8 ports . There is independent tilt settings per beam (0-15° tilt for each pair of cross-polarized elements).

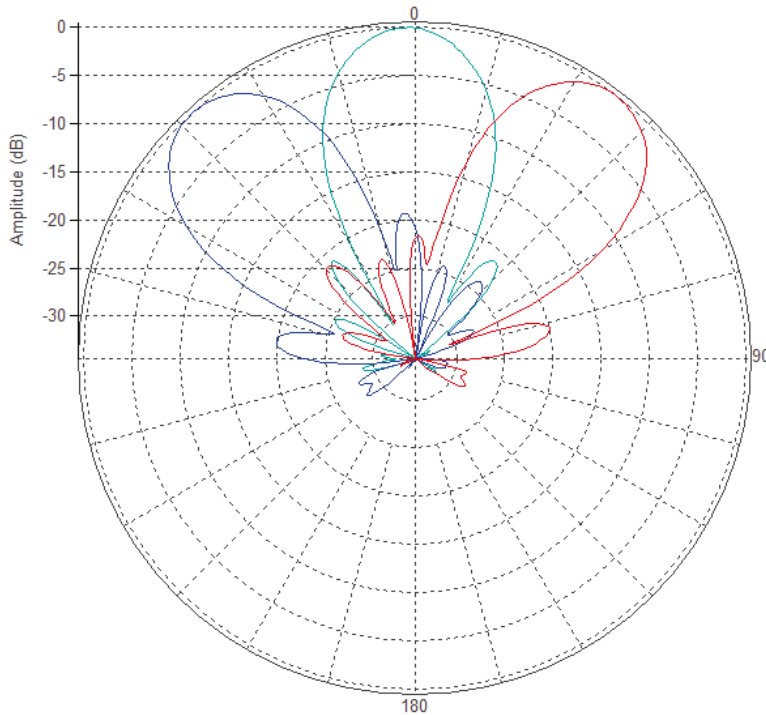


PATTERN RESULTS:

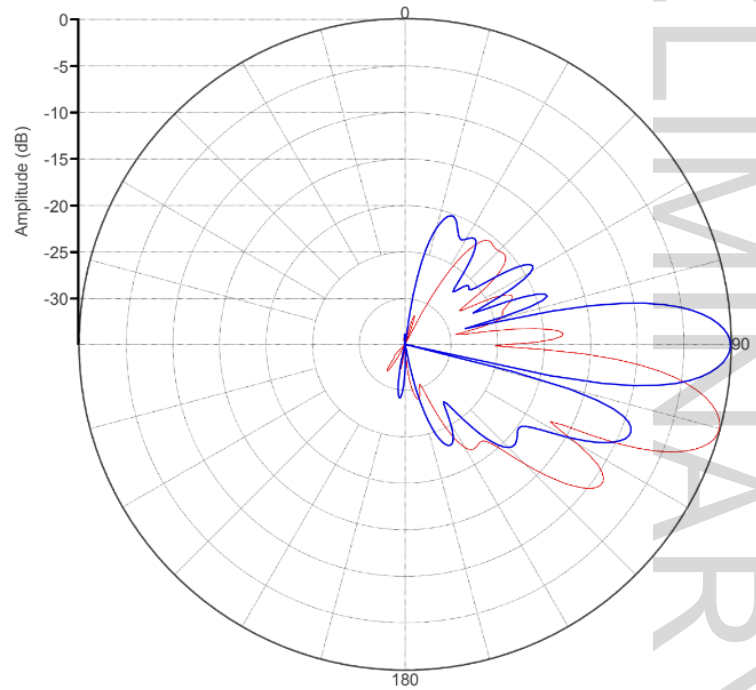


PRELIMINARY

High-Band Horizontal Pattern (1.80GHz)



High-Band Vertical Pattern (1.80GHz)



TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|------------------------|
| Frequency | 1695-2690 MHz |
| Gain | 18.5dBi |
| 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) | 12° |
| Beam Cross-over | 10dB typical |
| Total Number of Beams | 3 |
| Number of Ports per Beam | 8 |
| Number of Ports Total | 24 |
| Tilt Per Cross-Pol | 0° to 15° |
| USLS Upper Sidelobe | <-16dB |
| Azimuth Sidelobe Suppression level | <-16dB |
| Front to Back Ratio | >28dB |
| Isolation Port to Port - Polarization | >28dB |
| Isolation Port to Port - Beam | >26dB |
| Power Rating | 200W per port |
| Intermodulation | <-153dBc |
| Impedance | 50 ohm |
| Connector Quantity and Type | 24 x 4.3-10 DIN female |

MECHANICAL DATA

| | |
|------------------------|---|
| Dimensions (H x W x D) | 244 x 61 x 60 cm 96 x 24 x 23 inch |
| Antenna Weight | 60 kg 132 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:

PRELIMINARY