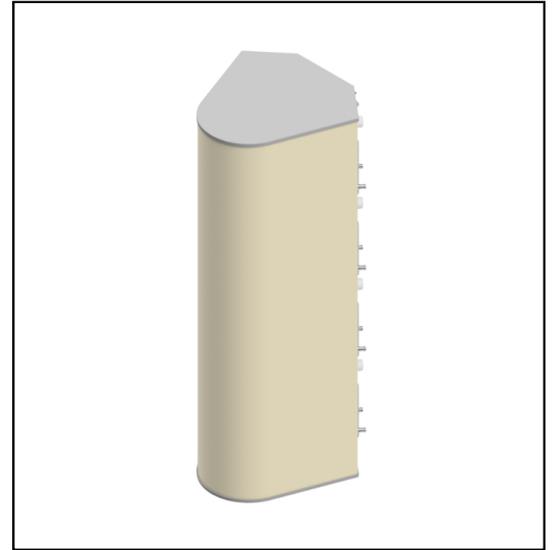


MS-MBA-8

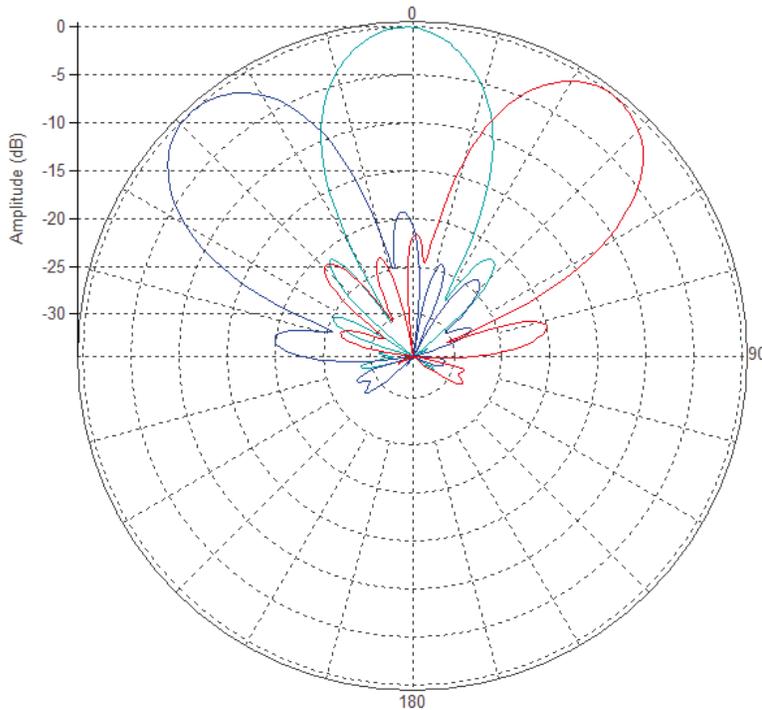
Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 3 to 9 sector LTE cell site deployments for best CINR results. Utilizes a patented spherical lens design with 3 isolated high-frequency (1695–2690 MHz) cross-polarized beams. Each beam is made of four independent antennas and has 8 ports. There are four independent tilt settings per beam (0-30° tilt for each pair of cross-polarized elements).



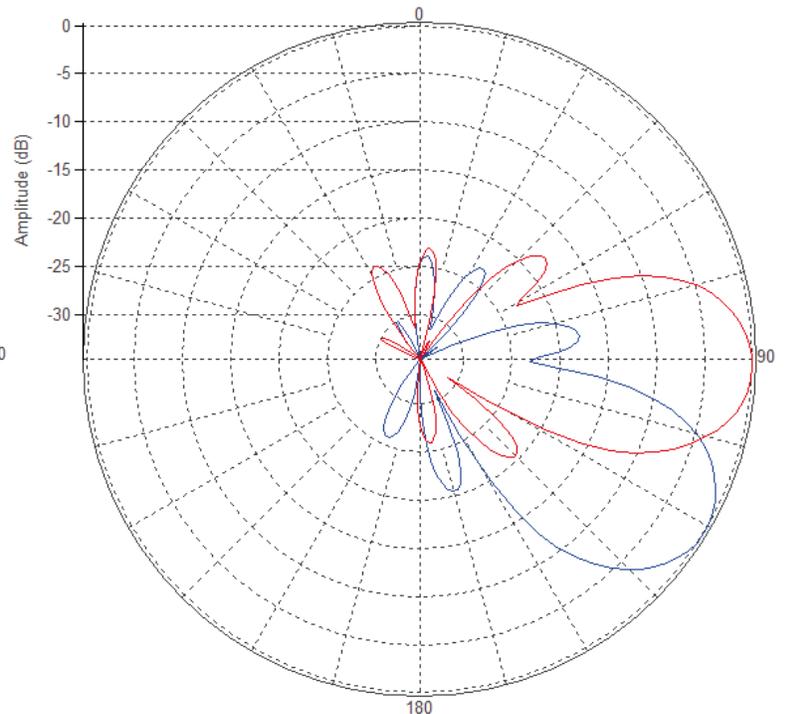
PATTERN RESULTS:



High-Band Horizontal Pattern (1.80GHz)



Vertical pattern at 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	8
Number of Ports Total	24
Tilt Per Cross-Pol (Four adjustments per beam) Remote Electrical Tilt (AISG 2.0)	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	24 4.3-10 DIN female

MECHANICAL DATA

Dimensions (H x W x D)	163.8 x 61.7 x 68.3 cm 64.5 x 24.3 x 26.9 inch
Antenna Weight	51.2kg/112.9lbs [w/o Bracket] 52.8kg/116.4lbs [w/bracket]
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	Frontal: 701 N/157.6 lbf Lateral: 1007 N/226.4 lbf Rear: 822 N/ 184.8 lbf

CONNECTOR LAYOUT:

