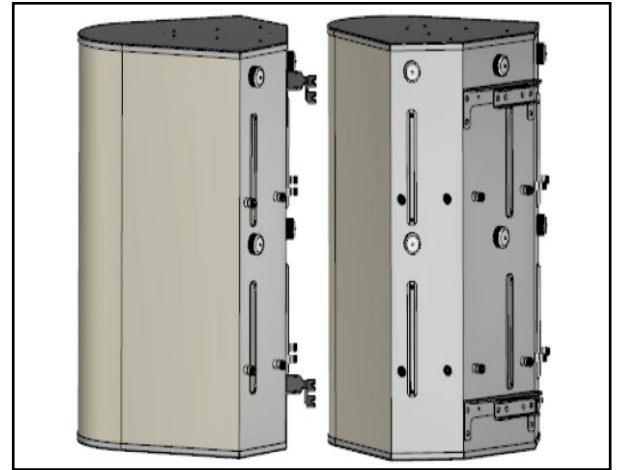


MS-MBA-3-H4A3

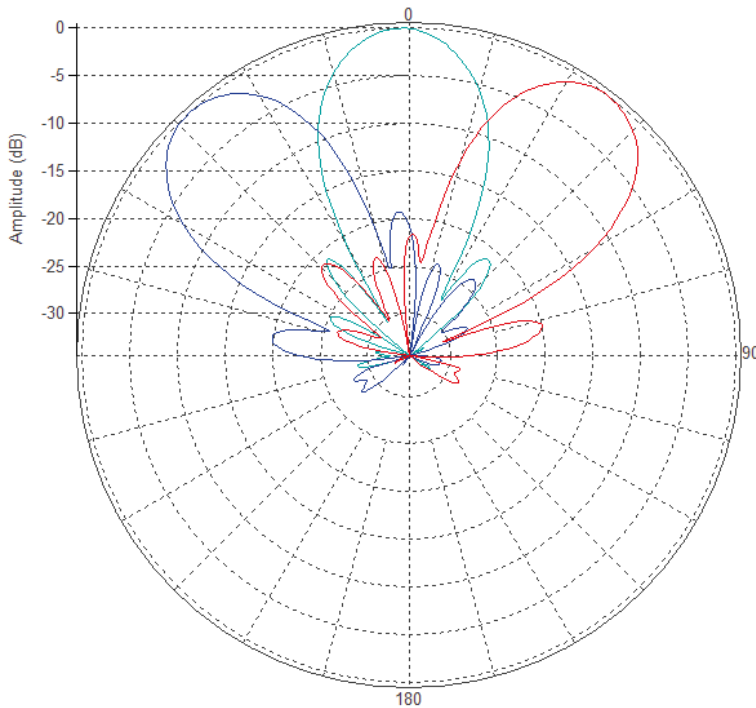
Multi-Beam Base-Station Antenna (MBA)

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 9 sector LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated mid-band (1695 - 2690MHz) cross-polarized beams. Each beam has 4 ports for 4X4 MIMO and RET (2°-15°).

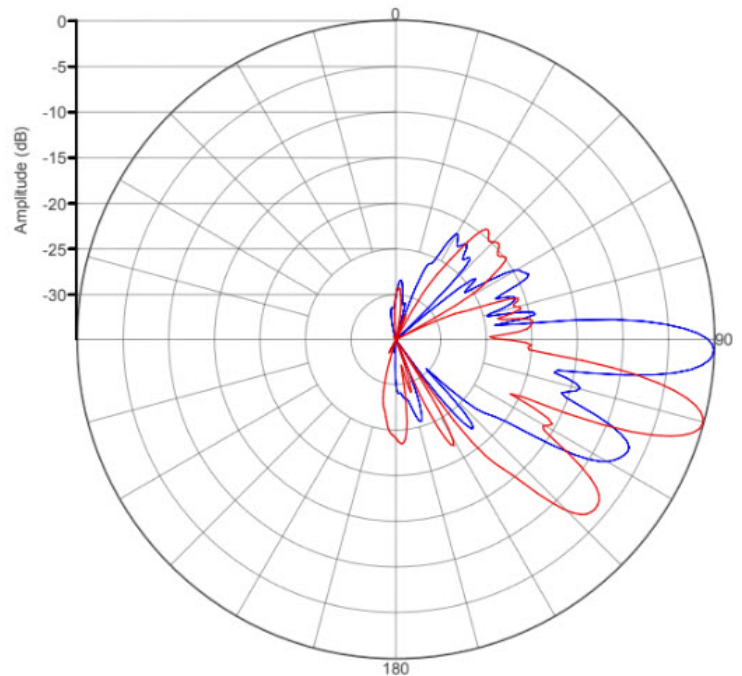


PATTERN RESULTS:

High-Band Horizontal Pattern (1.80GHz)



Vertical pattern at 2° tilt and 15° tilt (1.80GHz)





LENS TECHNOLOGY ENABLED

TECHNICAL SPECIFICATIONS

Frequency	1695-2690 MHz
Gain	21dBi
VSWR	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level)	40°
Horizontal Beamwidth (3dB level)	23°
Vertical Beamwidth (3dB level)	8°
Beam Cross-over	10dB typical
Total Number of Beams	3
Number of Ports per Beam	4
Number of Ports Total	12
RET Per Beam	2° to 15°
First Upper Sidelobe level	<-16dB
Azimuth Sidelobe Level	<-15dB
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	12 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	200 x 62 x 60 cm 79 x 23.5 x 24 inch
Antenna Weight	60kg 132lbs
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	Lateral: 1450N

CONNECTOR/BEAM LAYOUT: