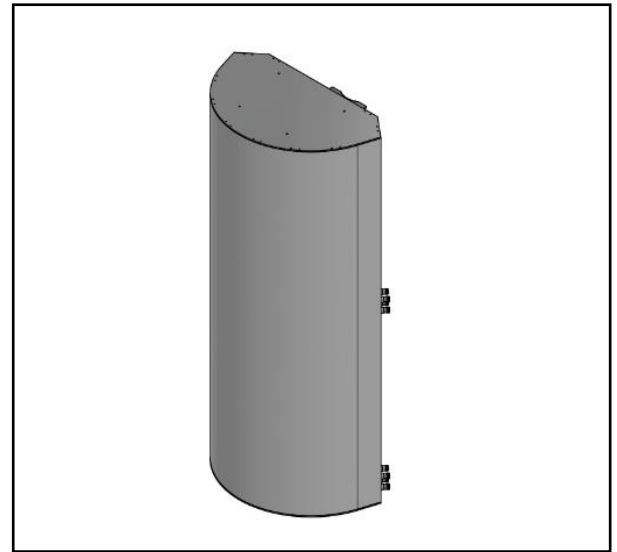


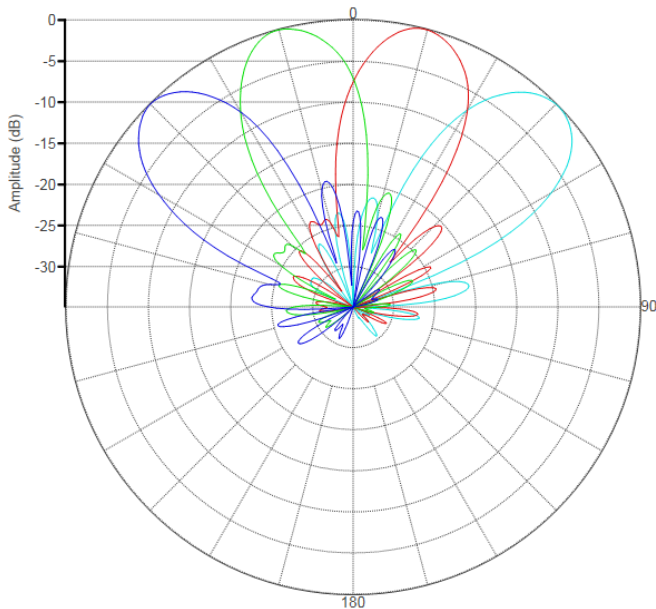
MS-MBA-4-F8A3

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for multi-sector cell site deployments, utilizes a patented spherical lens design with 4 isolated F-Band (3300–4200MHz) cross-polarized beams. Each Beam has 8 ports or 8x8 MIMO. RET available from 0° - 15°.

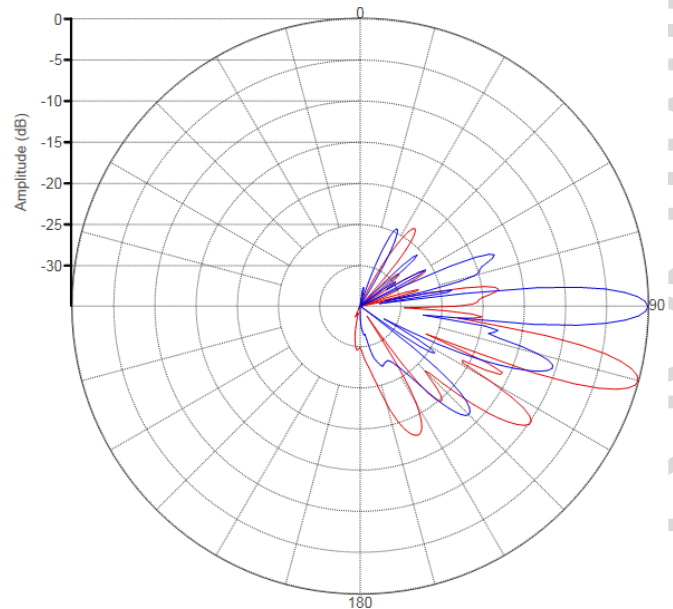


PATTERN RESULTS:

Horizontal Pattern (3.7GHz)



Vertical Pattern at 0° and 15° (3.7GHz)



PRELIMINARY

TECHNICAL SPECIFICATIONS

Frequency	3300 – 4200 MHz
Gain	22dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level)	34°
Horizontal Beamwidth (3dB level)	19°
Vertical Beamwidth (3dB level)	6.5°
Beam Cross-over	8dB typical
Total Number of Beams	4
Number of Ports per Beam	8
Number of Ports Total	32
RET	0°-15°
Upper Side Lobe Suppression	16dB
Azimuth Sidelobe Level	-18dB
Front to Back Ratio	28dB
Isolation Port to Port - Polarization	28dB
Isolation Port to Port - Beam	28dB
Power Rating	150W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	32 x 4.3-10 female

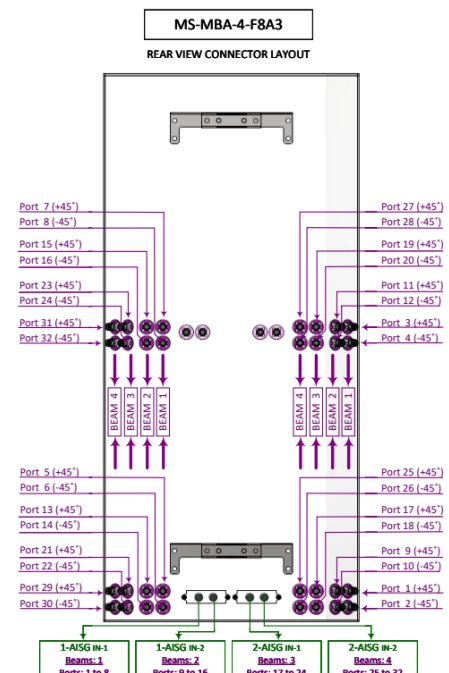
MECHANICAL DATA

Dimensions (H x W x D)	152.6 x 70.3 x 40.1 cm 60.1 x 27.7 x 15.8 inch
Antenna Weight	55 kg 121.2 lbs
Radome Material	Fiber Glass
Mounting	Standard 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 @ 150 km/hr	N/lbf Frontal: 800.4 / 179.9 Lateral: 462.5 / 104 Rear: 1478/332

CONNECTOR LAYOUT:



PRELIMINARY