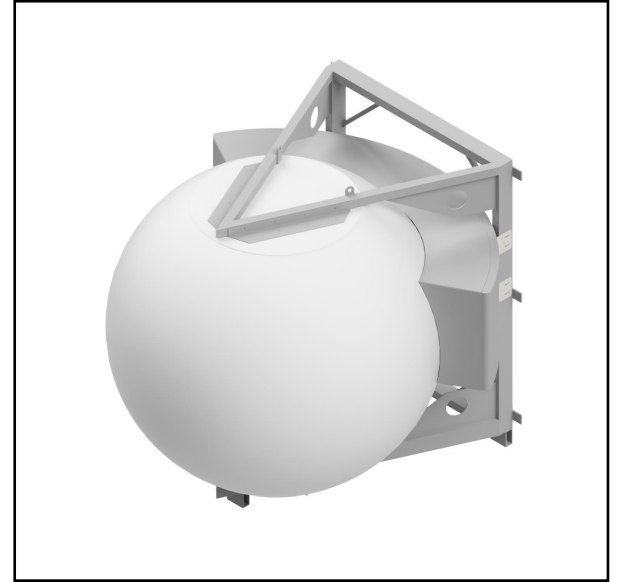


MS-6T180

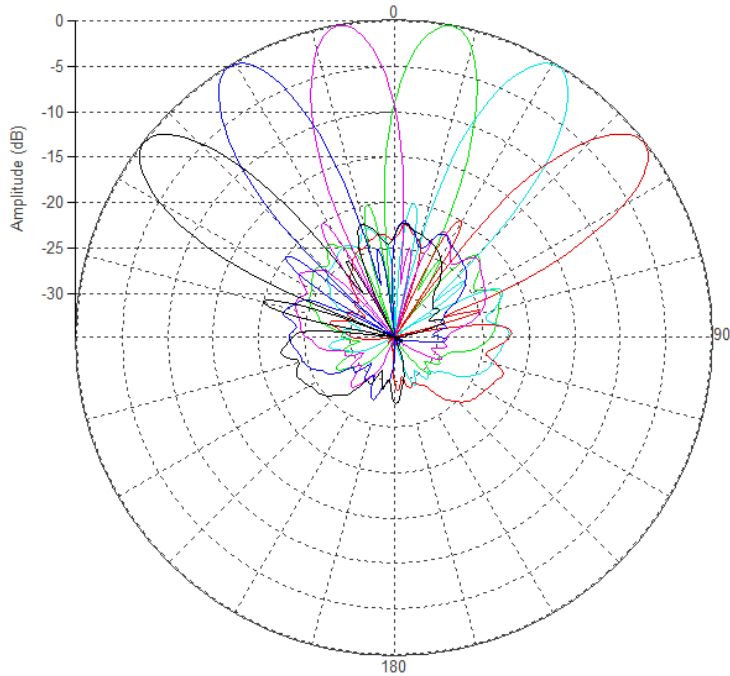
Multi-Beam Spherical Lens Antenna:

- 6 T-Band (617-896 MHz) cross-polarized beams
- Each beam has 2 port to support 2X2 MIMO
- Each beam has independent tilt from 0° to 15°
- External RET Controller Part # MS-EXT-RET-6T180

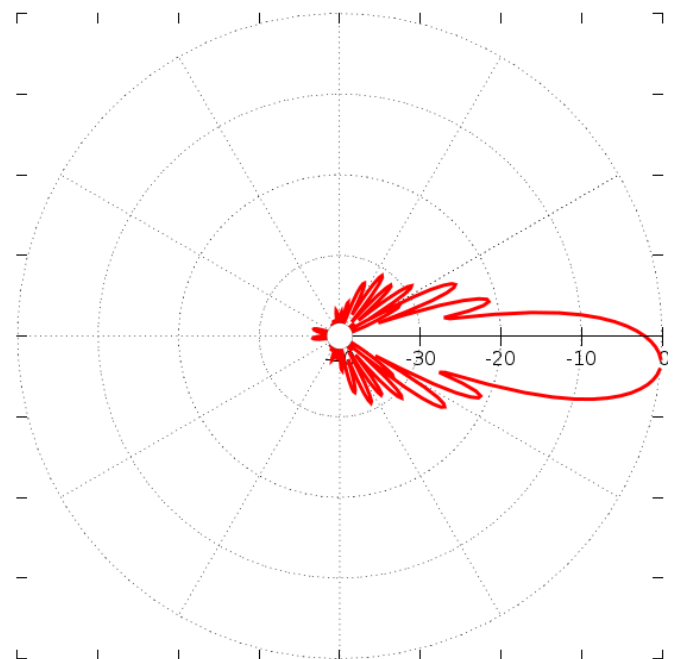


PATTERN RESULTS:

Low-Band Horizontal Pattern (0.85GHz)



Low-Band Vertical Pattern (0.85GHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	617-896 MHz
Gain	20.5dBi
VSWR	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	20° 12°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	20° 12°
Beam Cross-over	10dB typical
Total Number of Beams	6
Manual Adjustable Tilt per beam	0° to 15°
First Sidelobe level	<-15dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>26dB
Power Rating	250W per port
Total Applied Power	$\leq 2.5\text{KWatts}$
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	12 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 180cm/70inch Antenna dimensions: 187.7 x 204.4 x 207 cm 73.9 x 80.5 x 81.5 inch
Antenna Weight w/RET	226.62 kg 499.6 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 @ 160 km/hr	N/lbf Frontal: 2316/520

CONNECTOR LAYOUT:

