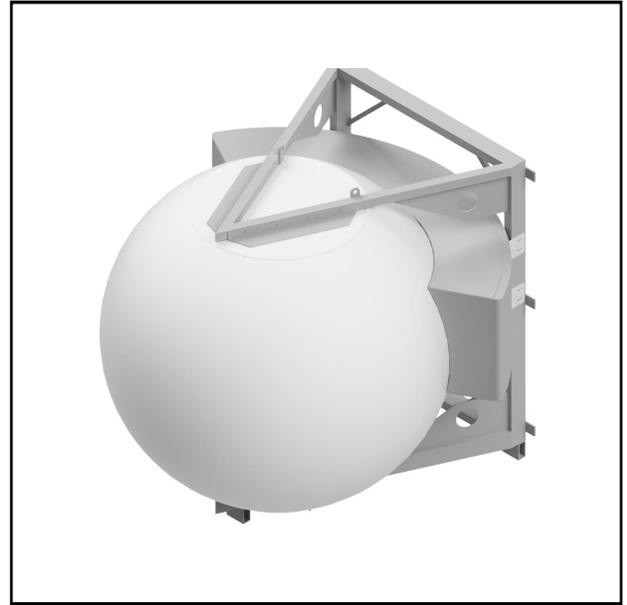


## MS-6L180

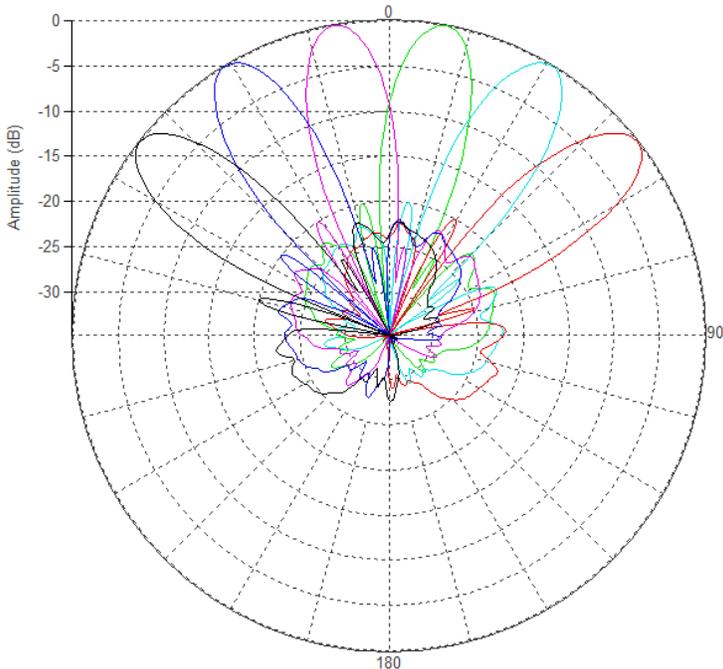
### Multi-Beam Spherical Lens Antenna:

- 6 L-Band (698-960MHz) 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-6L180

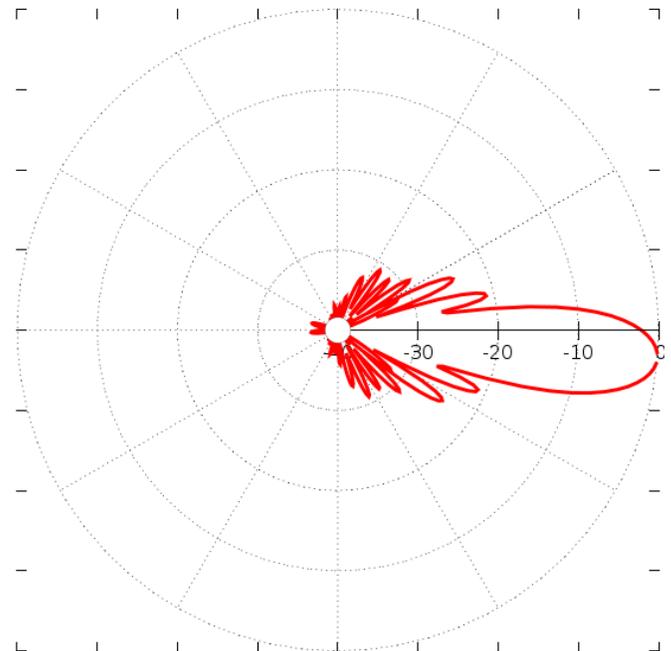


### PATTERN RESULTS:

Low-Band Horizontal Pattern (0.85GHz)



Low-Band Vertical Pattern (0.85GHz)



### TECHNICAL SPECIFICATIONS PER BEAM

Frequency	698-960 MHz
Gain	20.5dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level)	20°
Horizontal Beamwidth (3dB level)	12°
Vertical Beamwidth (10dB level)	20°
Vertical Beamwidth (3dB level)	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	≤ 2.5KWatts
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: 187.1 X 204.4 X 207 cm 73.7 X 80.5 X 81.5 inch
Antenna Weight w/RET	226.62 kg 499.6 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 @ 160 km/hr	N/Ibf Frontal: 2499/562 Lateral: 2361/531 Rear: 2542/571

### CONNECTOR LAYOUT:

