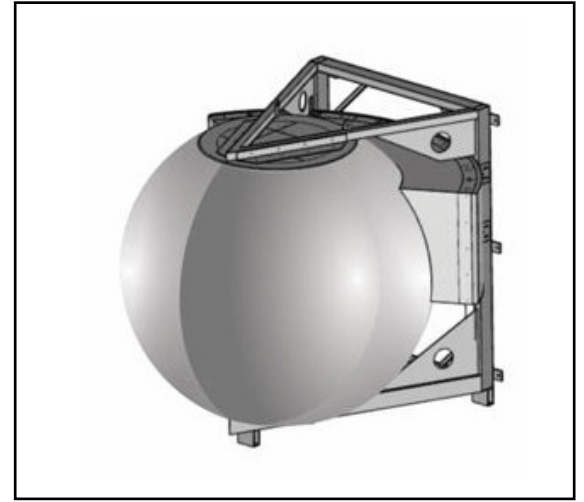


MS-12H180

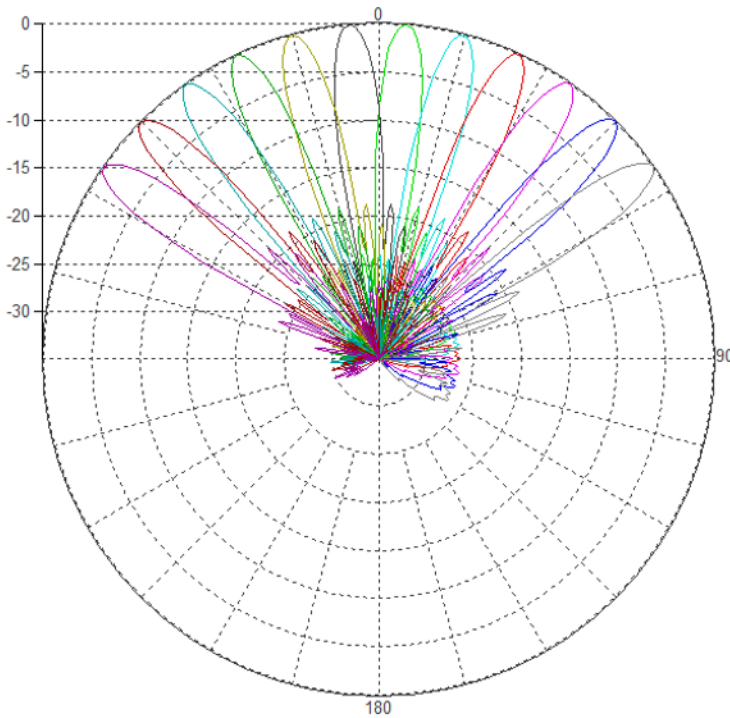
Multi-Beam Wide Band Spherical Lens Antenna: 12 independent high frequency (1695-2690MHz) cross-polarized beams, with independent 15° tilt per beam.

External RET Controller Part # MS-EXT-RET-12H180

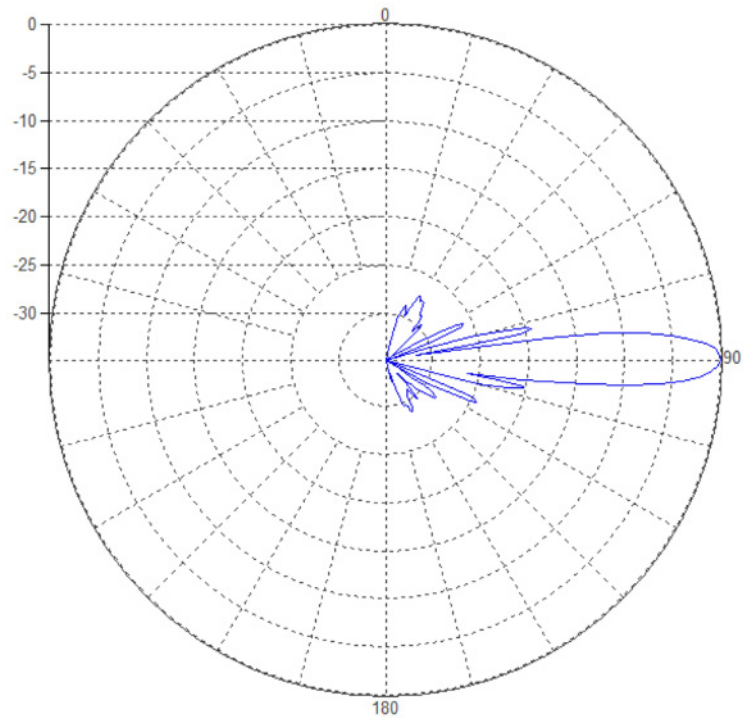


PATTERN RESULTS:

Horizontal Pattern (1.80GHz)



Vertical Pattern (1.80GHz)



TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|--------------------|
| Frequency | 1695-2690 MHz |
| Gain | 27.5dBi |
| VSWR | <1.5:1 |
| Polarization | Dual Slant ±45° |
| Horizontal Coverage | 120° |
| Horizontal Beamwidth (10dB level) | 10° |
| Horizontal Beamwidth (3dB level) | 6° |
| Vertical Beamwidth (10dB level) | 10° |
| Vertical Beamwidth (3dB level) | 6° |
| Beam Cross-over | 10dB typical |
| Total Number of Beams | 12 |
| Adjustable Tilt per Beam | 0° to 15° |
| First Sidelobe level | <-16dB |
| Front to Back Ratio | >28dB |
| Isolation Port to Port - Polarization | >28dB |
| Isolation Port to Port - Beam | >28dB |
| Power Rating | 250W per port |
| Intermodulation | <-153dBc |
| Impedance | 50 ohm |
| Connector Quantity and Type | 24 X 4.3-10 female |

MECHANICAL DATA

| | |
|------------------------|--|
| Dimensions (H x W x D) | Spherical Lens diameter: 180cm/70inch Antenna dimensions: 187.1 X 207 X 204.4 cm 73.7 X 81.5 X 80.5 inch |
| Antenna Weight | 240 kg 529 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 @ 150 km/hr | N/lbf Frontal: 1838/413 Lateral: 2053/462 |

SAMPLE CONNECTOR LAYOUT:

