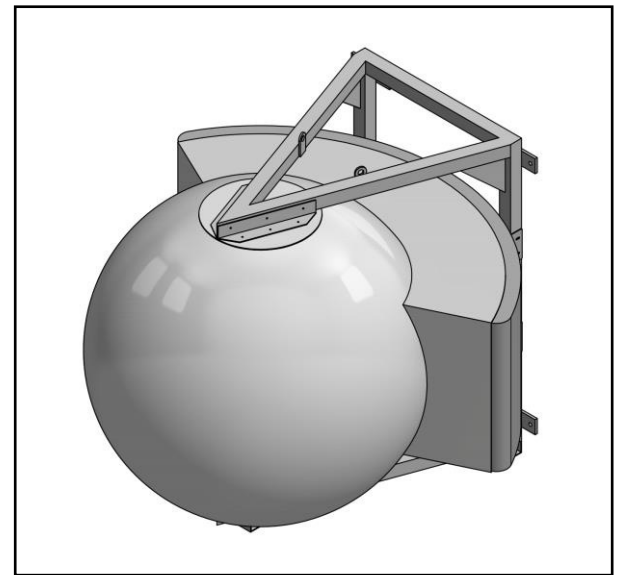
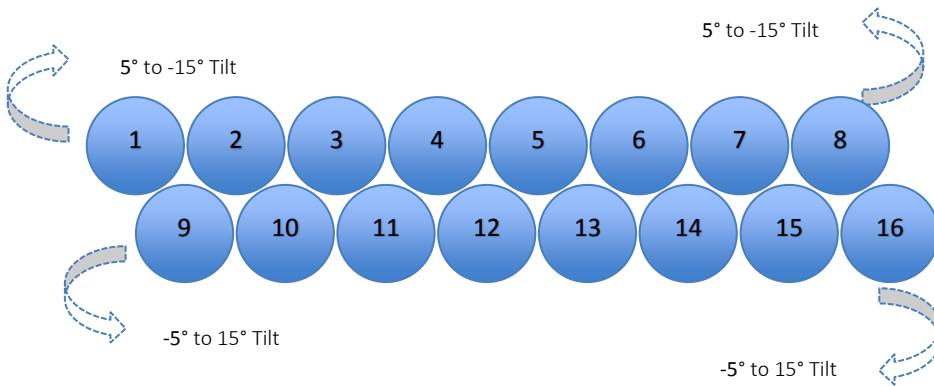


MS-16H120

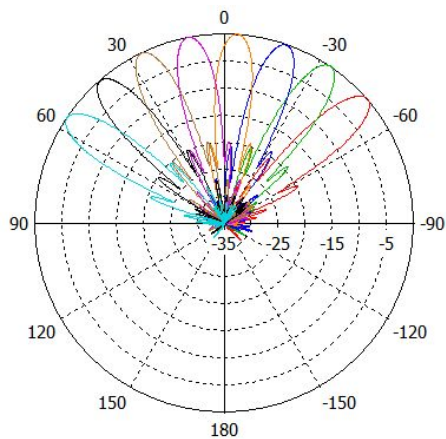
Multi-Beam Wide Band Spherical Lens Antenna: 2 rows of 8 independent high frequency (1695-2690MHz) cross-polarized beams.

BEAM LAYOUT:

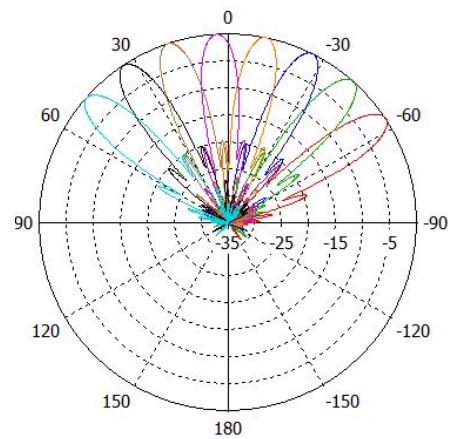


PATTERN RESULTS (1.8GHz):

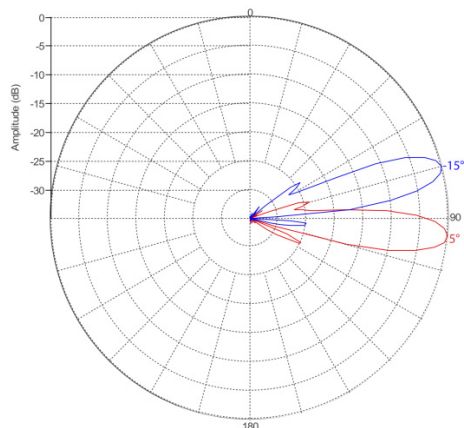
Horizontal Pattern Top Row



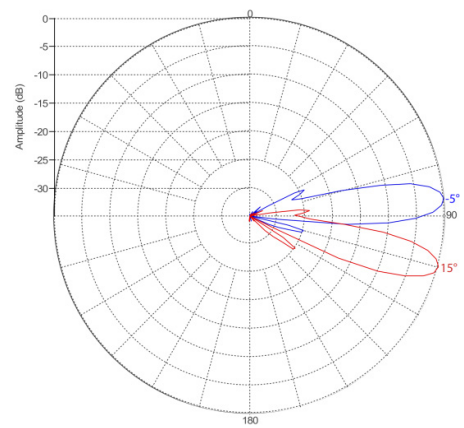
Horizontal Pattern Bottom Row



Vertical Pattern Top Row



Vertical Pattern Bottom Row



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	1695-2690 MHz
Gain	24.5dBi
VSWR	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level)	15°
Horizontal Beamwidth (3dB level)	8.5°
Vertical Beamwidth (10dB level)	15°
Vertical Beamwidth (3dB level)	8.5°
Beam Cross-over	10dB typical
Total Number of Beams	16
Tilt (Factory Set): $\geq 12^\circ$ beam separation required between the two rows	5° to -15° upper row -5° to 15° lower row
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	32 X 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 120cm/47inch Antenna dimensions: 128 x 149 x 142.4 cm 50.4 x 58.7 x 56.1inch
Antenna Weight	75kg 165lbs
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	959 N @ 160km/hr 216 lbf @ 160km/hr

CONNECTOR LAYOUT:

