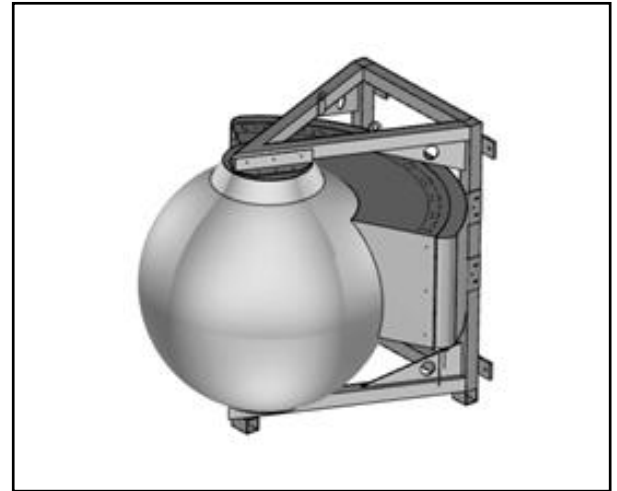
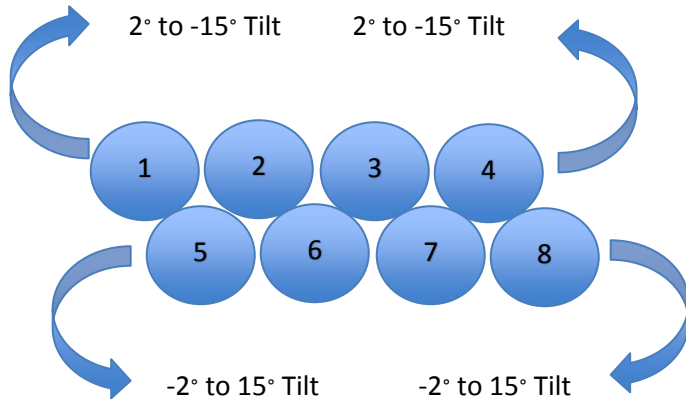


## MS-8F30

Multi-Beam Spherical Lens Antenna utilizes a patented spherical lens design with 8 F-Band (3.3GHz – 4.2GHz) cross-polarized beams, each beam has independent tilt from 0° to 15°. Beams are arranged in two rows of 4 with the second row offset to minimize overlap/null. Top and bottom rows have independent 15° tilt.

### BEAM LAYOUT:

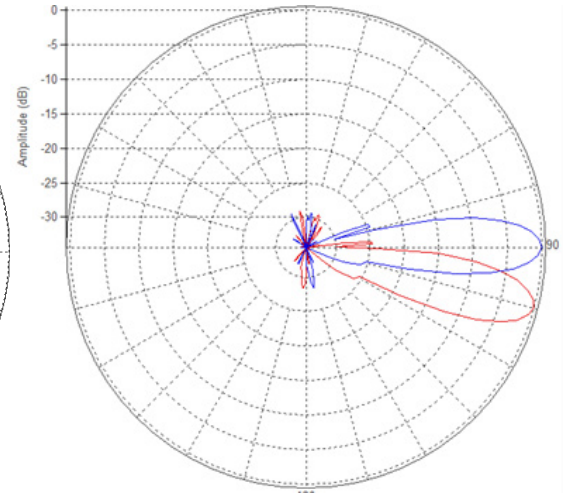
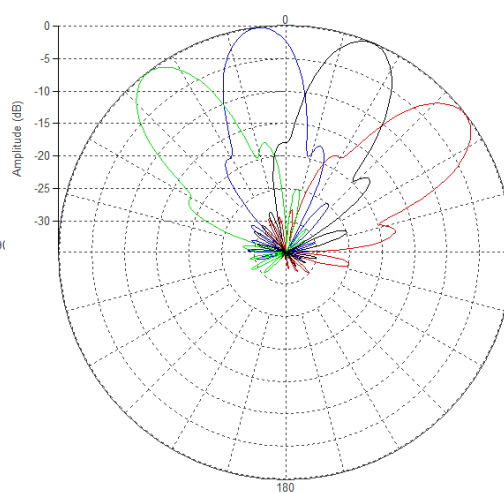
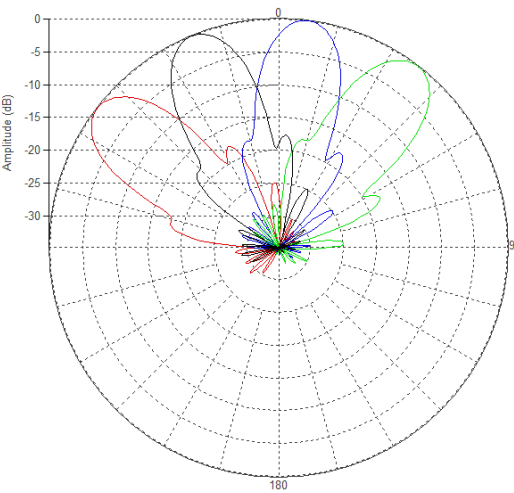


### PATTERN RESULTS (3.6GHz):

Horizontal Pattern top row

Horizontal Pattern Bottom Row

Vertical Pattern



## TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3.3GHz – 4.2GHz
Gain	20dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level)	30°
Horizontal Beamwidth (3dB level)	17°
Vertical Beamwidth (10dB level)	30°
Vertical Beamwidth (3dB level)	17°
Beam Cross-over	10dB
Total Number of Beams	8
Tilt ≥12° beam separation required between the two rows	2° to -15° upper row -2° 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	150W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	16 x 4.3-10 female

## MECHANICAL DATA

Dimensions (H x W x D)	50 x 66 x 71 cm 20 x 26 x 28 inch
Antenna Weight	30kg 66lbs
Radome Material	Fibre 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	TBD