

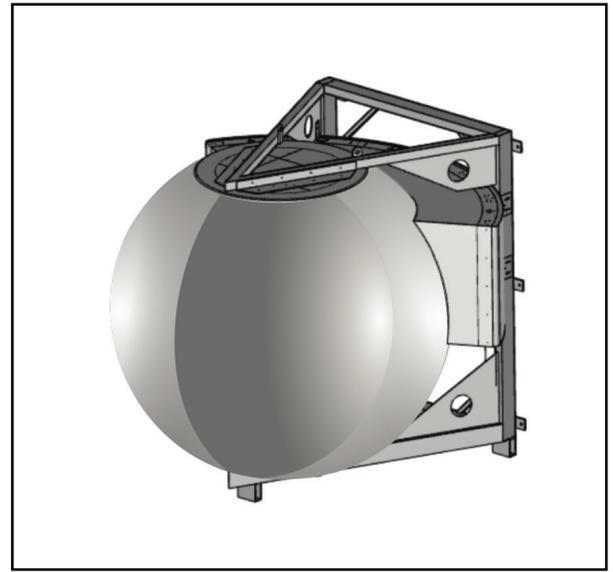
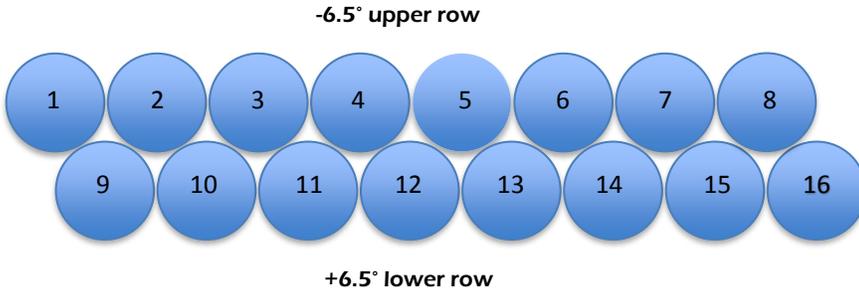
# MATSING®

LENS TECHNOLOGY ENABLED

## MS-16F60

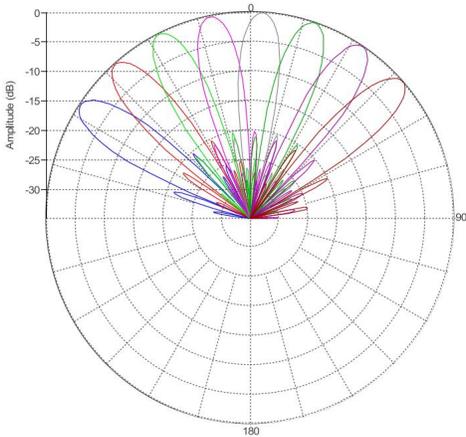
**Multi-Beam Wide Band Spherical Lens Antenna:**  
**2 rows of 8 independent F-Band (3300 - 4200MHz) cross-polarized beams. Fixed Tilt.**

### BEAM LAYOUT:

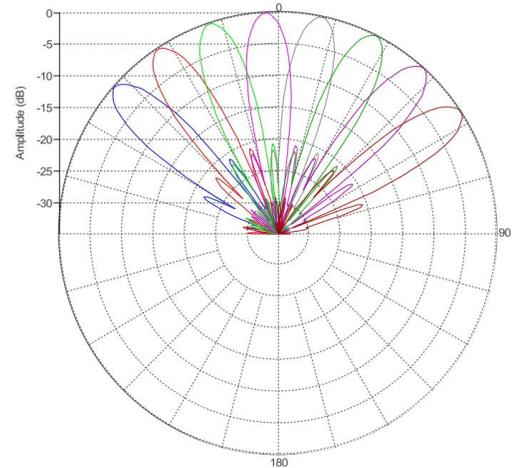


### PATTERN RESULTS (3.6GHz):

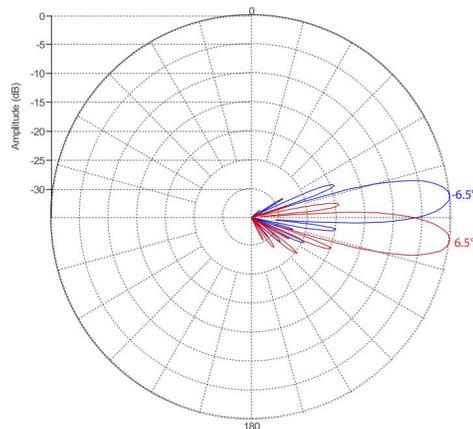
**Horizontal Pattern Top Row**



**Horizontal Pattern Bottom Row**



**Vertical Pattern**



### TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200MHz
Gain	24dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
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):	-6.5° upper row +6.5° 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	32 X 4.3-10 female

### MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 60cm/24inch  Antenna dimensions: 72.3 X 88.6 X 79.7 cm 28.5 X 34.9 X 31.4 inch
Antenna Weight	21.86 kg 48.2 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/h	N/lbf Frontal: 362/81 Lateral: 138.2/31 Rear: 395/89

### CONNECTOR LAYOUT:

