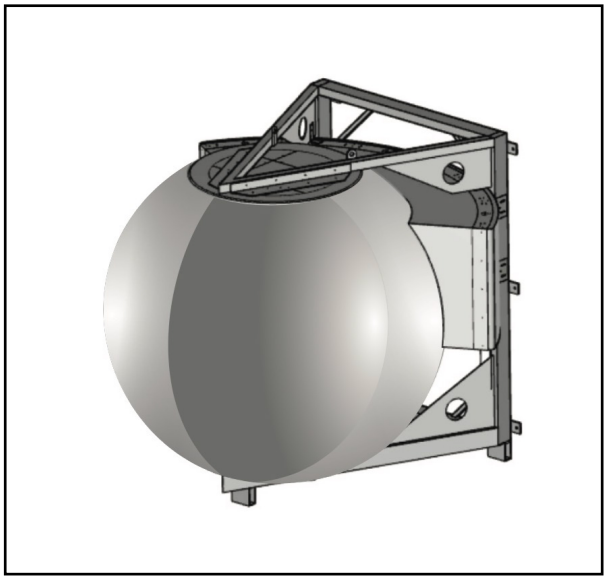
MATSING®

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.



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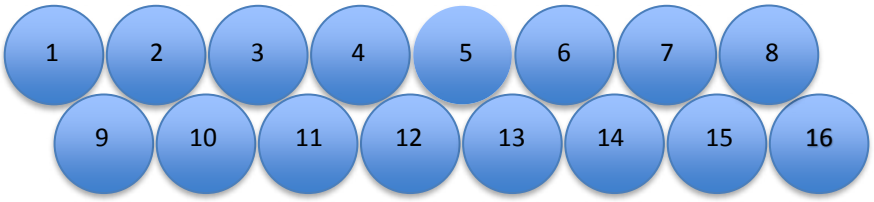
BEAM LAYOUT:

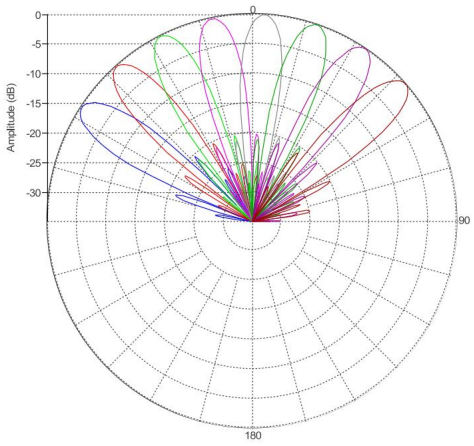
-6.5° upper row



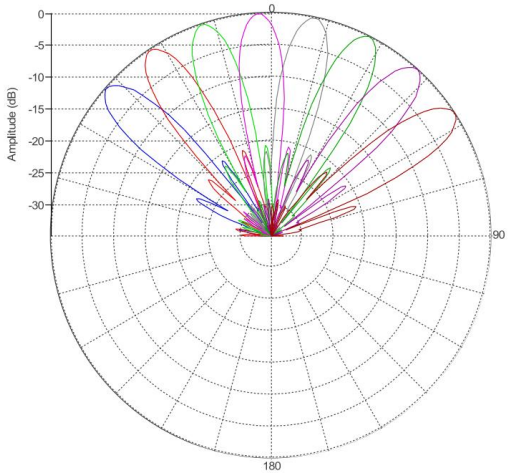
+6.5° lower row

PATTERN RESULTS (3.6GHz):

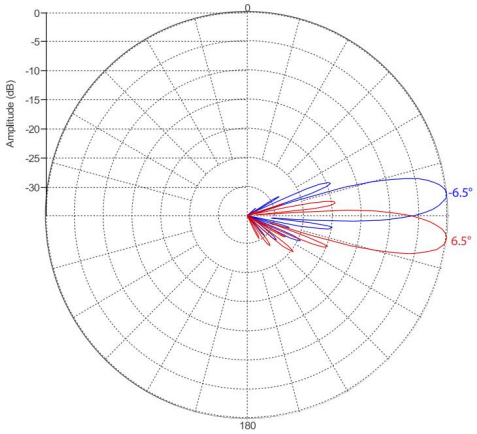
Horizontal Pattern Top Row



Horizontal Pattern Bottom Row



Vertical Pattern



EMAIL: info@matsing.com **WEBSITE:** www.matsing.com **PHONE:** (949)585-5144

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TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200MHz
Gain	24dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	15° 8.5°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	15° 8.5°
Beam Cross-over	10dB typical
Total Number of Beams	16
Fixed 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

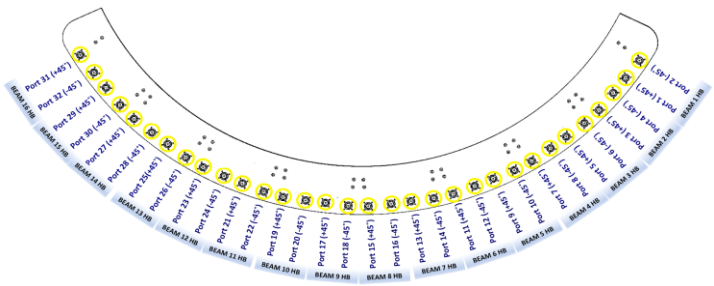
MECHANICAL DATA

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:



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