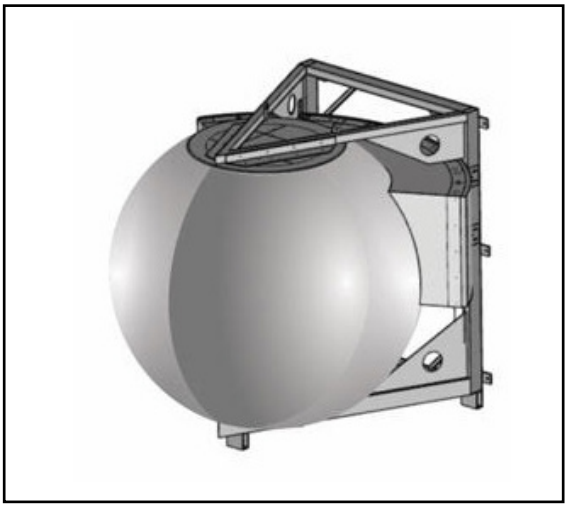
MATSING®

LENS TECHNOLOGY ENABLED

MS-8H120



Multi-Beam Spherical Lens Antenna: 8 independent high frequency (1695-2690MHz) cross-polarized beams, with 0-15° tilt for each beam and 2X2 MIMO support per beam.

***Optional Packages:**

a) MS-8H120-RET

AISG 2.0 Remote Electrical Tilt

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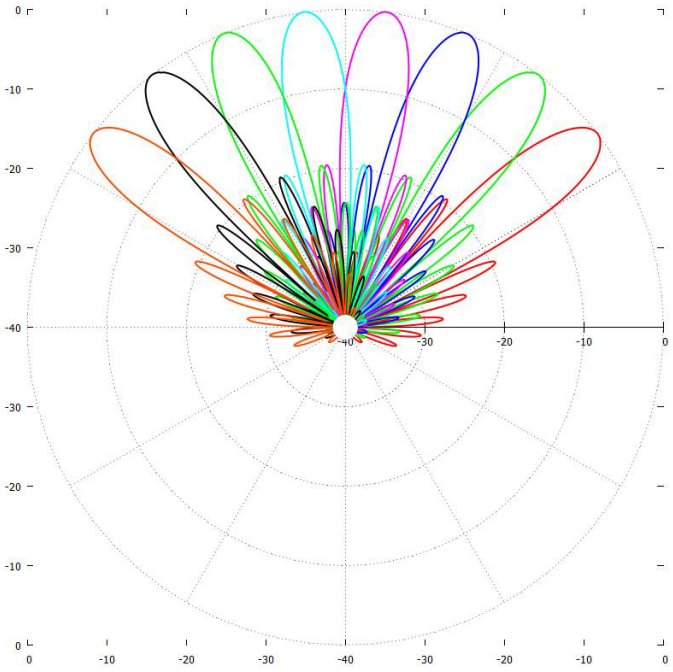
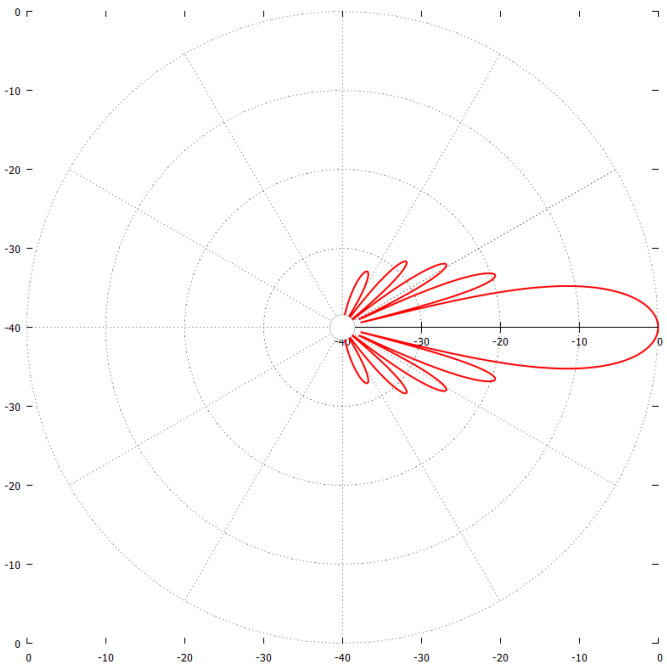
PATTERN RESULTS:

High-Band Horizontal Pattern (1.80GHz)



High-Band Vertical pattern (1.80GHz)



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

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TECHNICAL SPECIFICATIONS

Frequency	1695-2690 MHz
Gain	24.5dBi
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	8
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	16 x 4.3-10 female

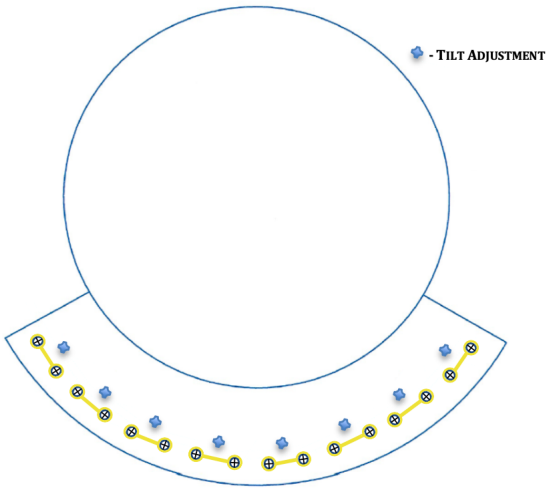
MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 120cm/47inch Antenna dimensions: 128 X 145.5 X 142.4 cm 50.4 X57.3 X56.1inch
Antenna Weight	75 kg 165.3 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: 1108.5/249.2

SAMPLE CONNECTOR LAYOUT:



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