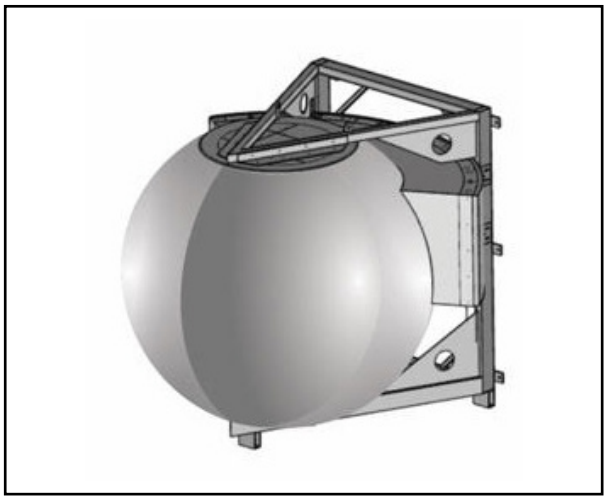
MATSING®

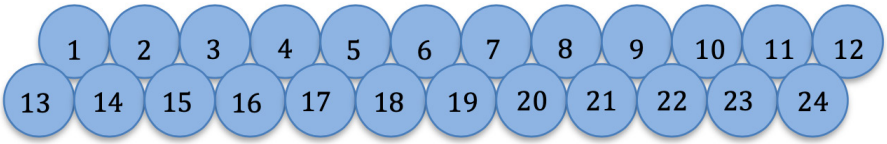
LENS TECHNOLOGY ENABLED

MS-24H180

Multi-Beam Spherical Lens Antenna: 24 independent high-frequency (1695-2690MHz) cross-polarized beams with 2X2 MIMO support per beam.



BEAM LAYOUT:



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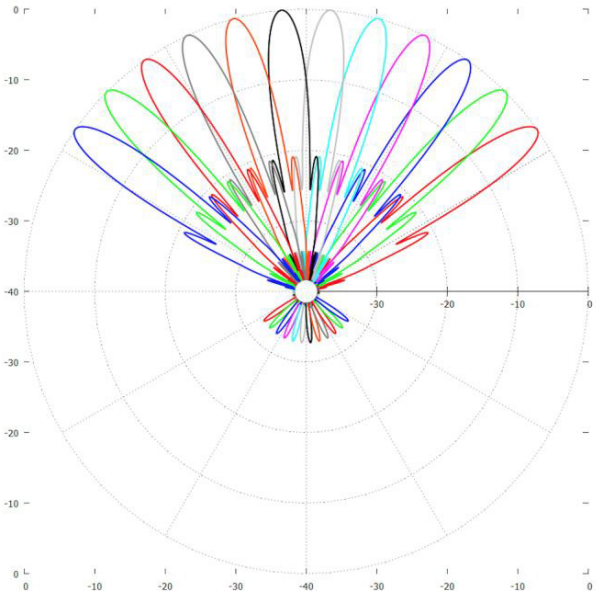
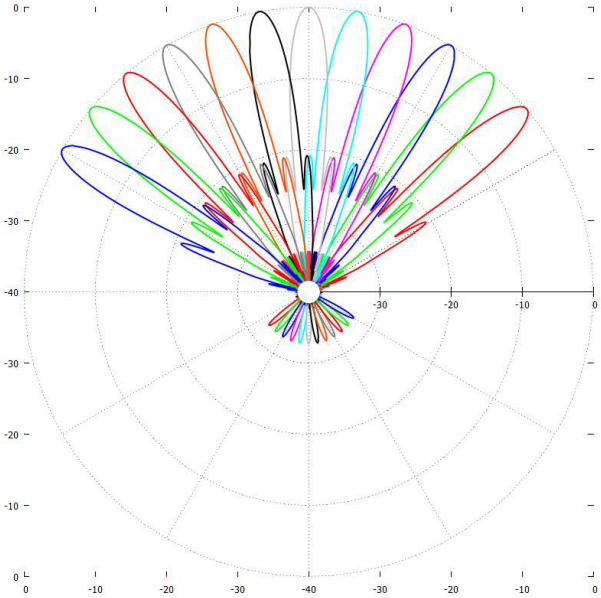
PATTERN RESULTS (1.8GHz):

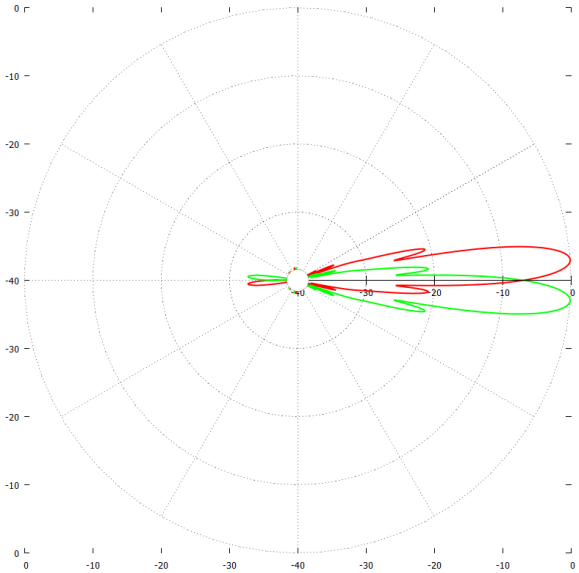
Horizontal pattern Row 1



Horizontal pattern Row 2



Vertical pattern



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

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TECHNICAL SPECIFICATIONS PER BEAM

Frequency	1695-2690 MHz
Gain	27.5dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	126°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	10° 6°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	10° 6°
Beam Cross-over	10dB typical
Total Number of Beams	24
Tilt (Factory Set)	4° Upper Row -4° Lower Row Or by customer request
First Sidelobe level	<-16dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>28dB
Power Rating	100W per port
Total Applied Power	≤ 2.5KWatts
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	48 x 4.3-10 female

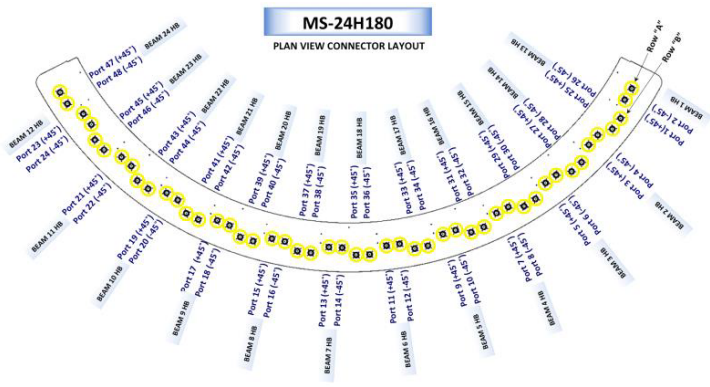
MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 180cm/70inch Antenna dimensions: 187.1 X 207 X 206.5 cm 73.7 X 81.5 X 81.3 inch
Antenna Weight	247.92 kg 546.5 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
	N/lbf
Wind load (Front)	1838/413 @150 km/hr
Wind load (Lateral)	2053/462 @150 km/hr

SAMPLE CONNECTOR LAYOUT:



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