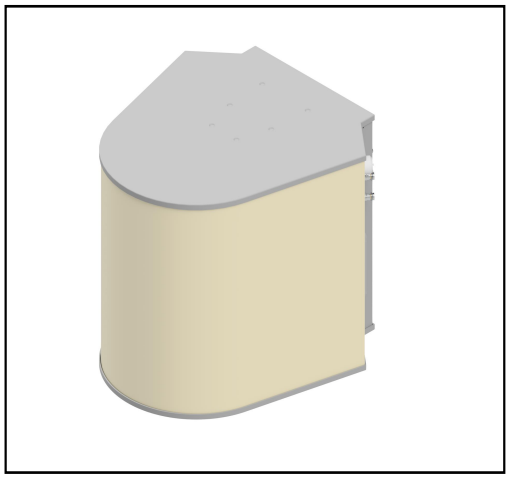
MATSING®

LENS TECHNOLOGY ENABLED

MS-MBA-4-H2



Multi-Beam High Band Spherical Lens Antenna capable of four independent high-frequency (1695-2690MHz) cross-polarized beams to support 2X2 MIMO. Each beam has independent tilt adjust from 0° to 20°.

Improved design includes;

1. **Small form factor**
2. **Standard RET capability**

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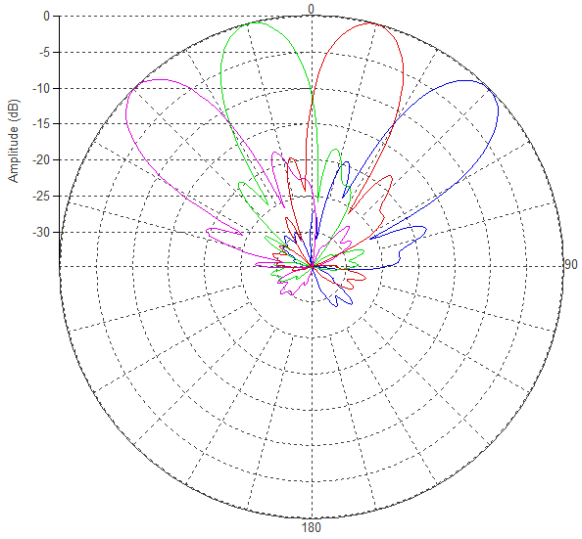
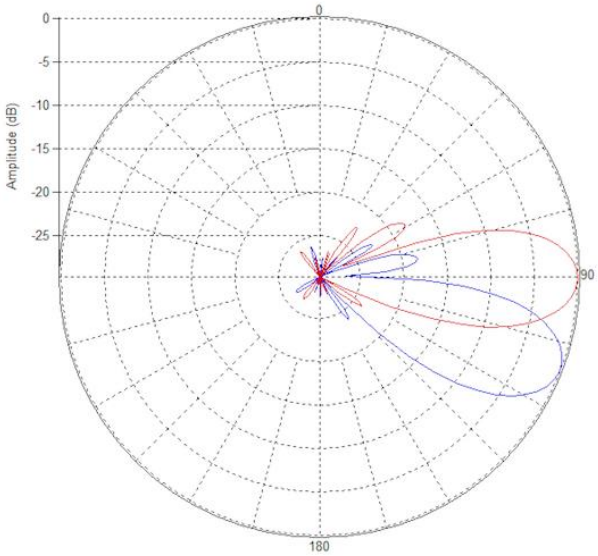
PATTERN RESULTS:

High-band Horizontal Pattern (1.92GHz)



High-band Vertical Pattern (1.92GHz) at tilt 0° and 20°



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TECHNICAL SPECIFICATIONS

Frequency	1695-2690 MHz
Gain	19dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	30° 17°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	30° 17°
Beam Cross-over	10dB typical
Total Number of Beams	4
Tilt Per Cross-Pol	0° to 20°
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	8 x 4.3-10 female

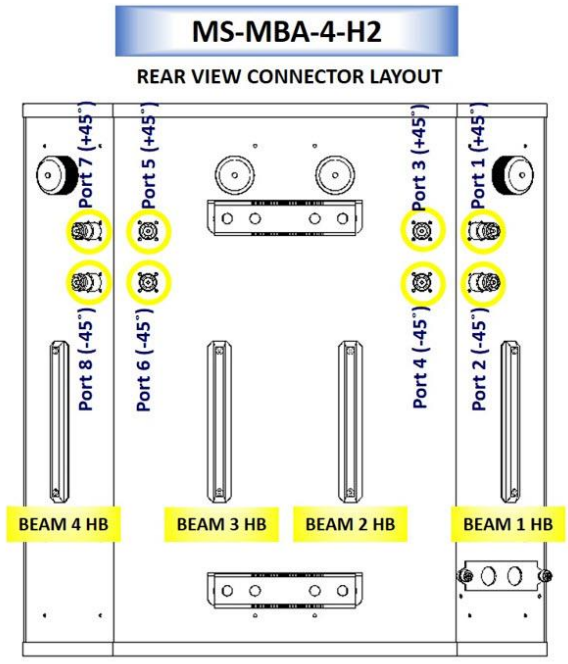
MECHANICAL DATA

Dimensions (H x W x D)	60 x 61 x 66 cm 23.5 x 24 x 26 inch
Antenna Weight	26kg 57lbs
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: 410/ 92

CONNECTOR LAYOUT:



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