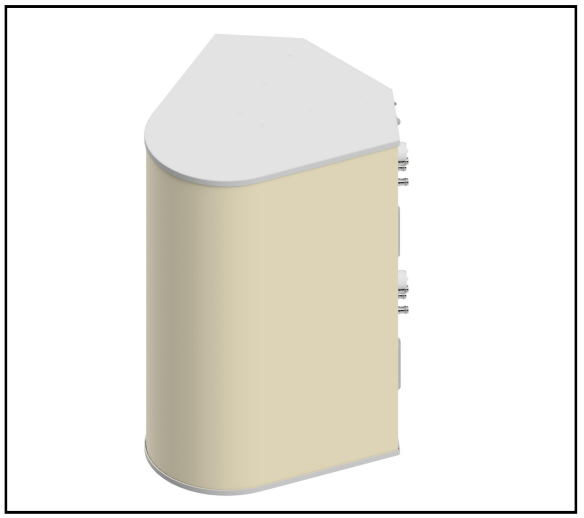
MATSING®

LENS TECHNOLOGY ENABLED



MS-MBA-4.4-SH2-SH2

Multi-Beam Dual Band Spherical Lens Antenna: 8 independent high-frequency (2.3 – 2.4GHz / 3.4 – 3.6GHz) cross-polarized beams with 2X2 MIMO support.

Each beam has independent tilt 0° to 15°.

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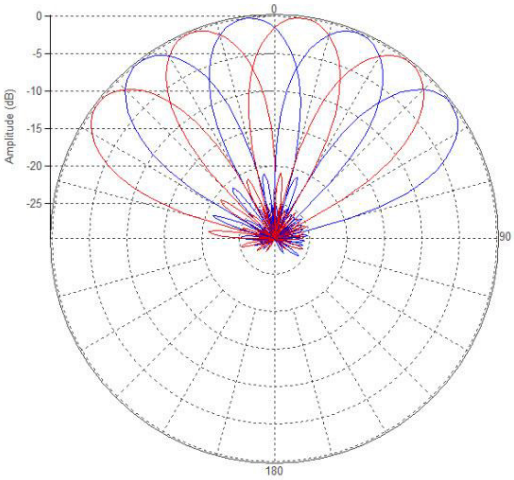
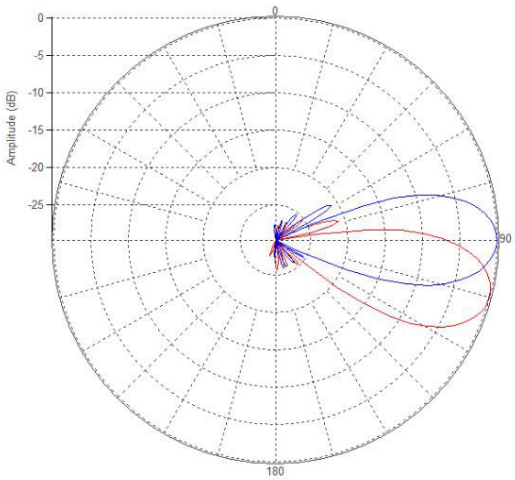
PATTERN RESULTS:

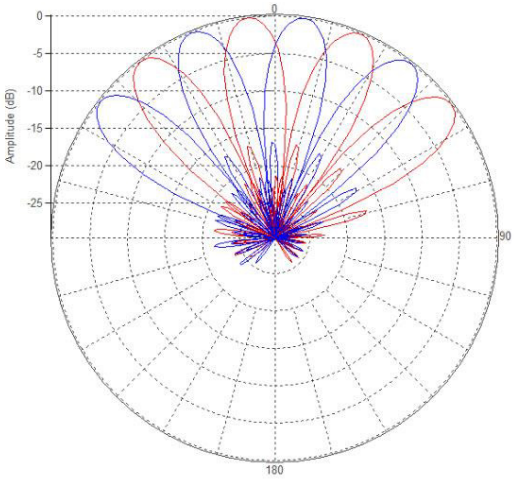
Horizontal Pattern (2.35GHz)



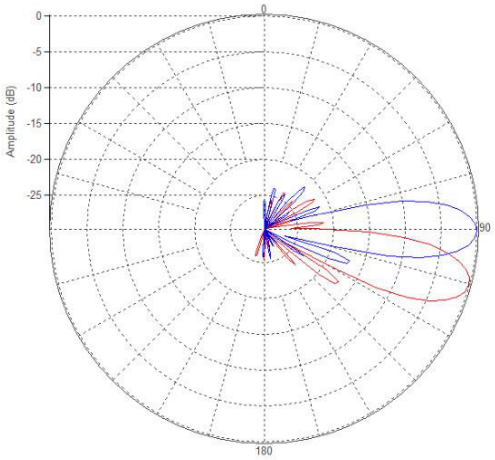
Vertical Pattern (2.35GHz) at tilt 0° and 15°



Horizontal Pattern (3.5GHz)



Vertical Pattern (3.5GHz) at tilt 0° and 15°



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MS-MBA-4.4-SH2-SH2

TECHNICAL SPECIFICATIONS PER BEAM

Frequency	2.3 - 2.4GHz	3.4 - 3.6GHz
Gain	18dBi	21dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	35° 20°	23° 13°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	35° 20°	23° 13°
Beam Cross-over	2dB	4dB
Total Number of Beams	8	
Total Number of Ports	16	
Tilt Per Cross-Pol	0° to 15°	
Sidelobe Level	<-16dB	<-16dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>28dB	>28dB
Power Rating	150W per port	150W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	16 x 4.3-10 female	

MECHANICAL DATA

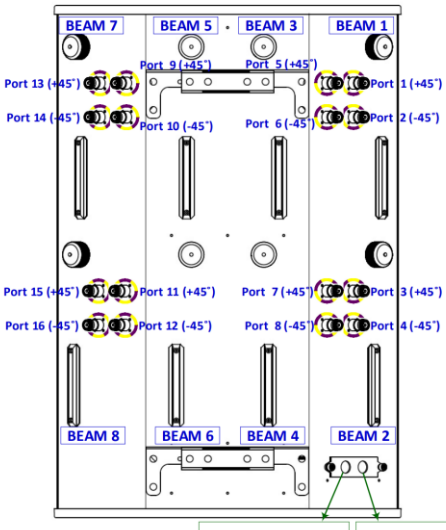
Dimensions (H x W x D)	91.1 x 61.7 x 68.3cm 35.9 x 24.3 x 26.9inch
Antenna Weight	32kg 71lbs
Radome Material	Fiber Glass
Mounting	Adjustable Clamps Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch

ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load @ 150km / hr	Units (N / lbf) Frontal: 386 / 86.8 Lateral: 523 / 117.6 Rear: 452 / 101.6

MS-MBA-4.4-SH2-SH2

REAR VIEW CONNECTOR LAYOUT



AISG IN-1
Beam 1: Port 1 - 2
Beam 3: Port 5 - 6
Beam 5: Port 9 - 10
Beam 7: Port 13 - 14

AISG IN-2
Beam 2: Port 3 - 4
Beam 4: Port 7 - 8
Beam 6: Port 11 - 12
Beam 8: Port 15 - 16

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