MATSING®

LENS TECHNOLOGY ENABLED

MS-MBA-2

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 3 to 9 sector LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated high-frequency (1695 – 2690 MHz) cross-polarized beams. Each beam has 2 cross-polarized ports for supporting 2X2 MIMO. Tilt is adjustable from 0 - 30° for each beam. High tilt provides null at horizon.

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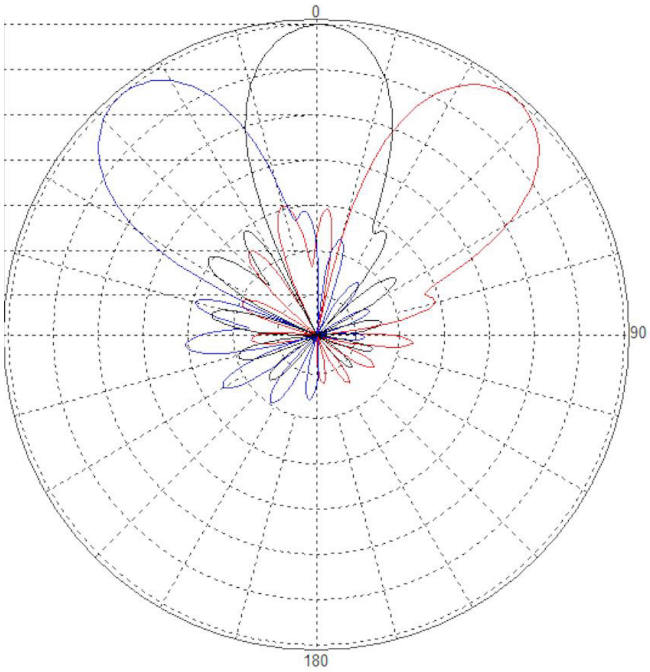
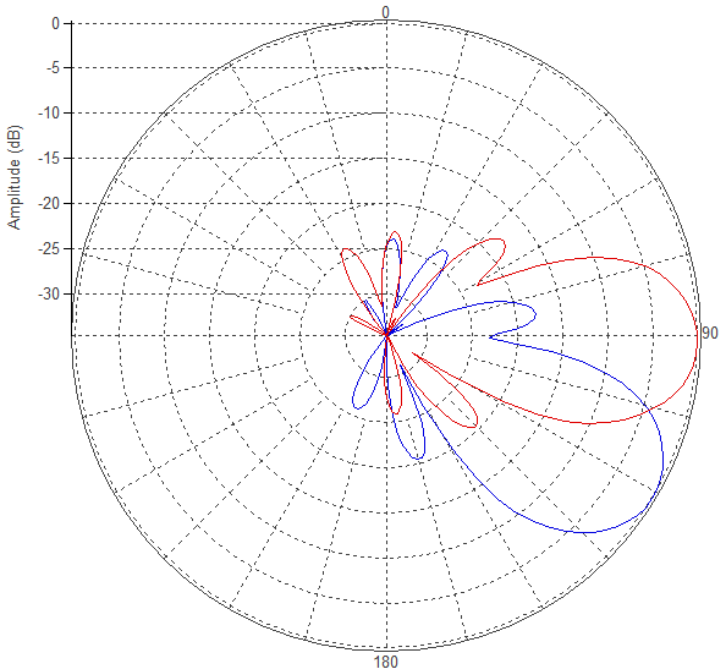
PATTERN RESULTS:

Horizontal Pattern (1.80GHz)



Vertical pattern 0° tilt and 30° tilt (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	17.8dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	40° 23°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	40° 23°
Beam Cross-over	10dB typical
Total Number of Beams	3
Number of Ports per Beam	2
Number of Ports Total	6
Tilt Per Cross-Pol	0° to 30°
First Sidelobe level	<-16dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>28dB
Power Rating	200W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	6 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	18.5 x 24 x 26 inch 47 x 61 x 66 cm
Dimensions (H x W x D) w / brackets:	21 x 24.5 x 24 inch 53 x 62 x 60 cm
Antenna Weight	22 kg 49lbs
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 @ 150km/hr	N / lbf Frontal 225 / 50.6 Lateral 323 / 72.6 Rear 264 / 59.4

CONNECTOR/BEAM LAYOUT:

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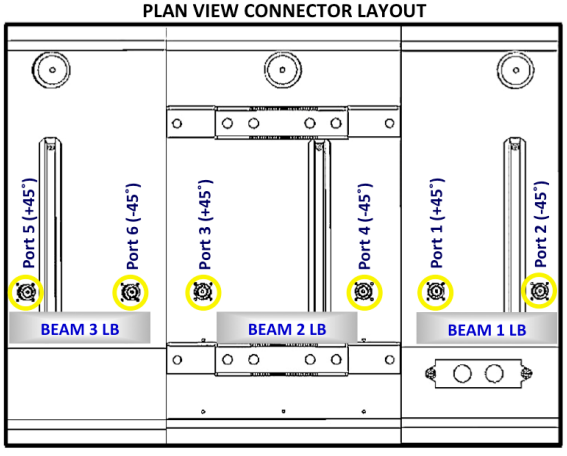
PLAN VIEW CONNECTOR LAYOUT



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