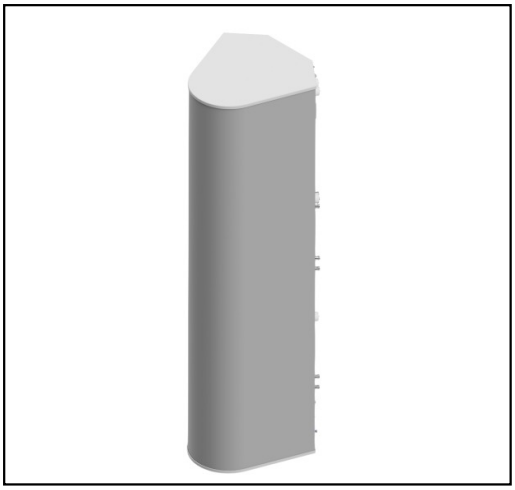
MATSING®

LENS TECHNOLOGY ENABLED

MS-MBA-3.3-F4A3-H4A2



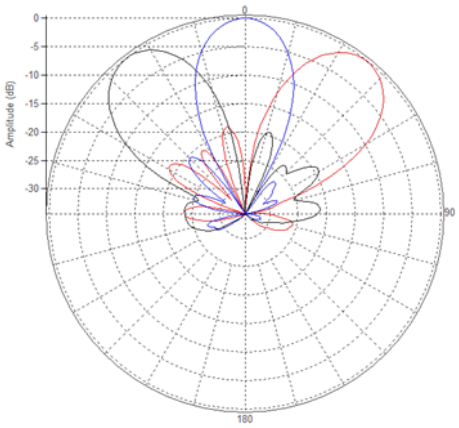
Lens Technology Enabled ™ Multi-Beam Base-Station Antenna perfect for LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated F-Band (3300-4200 MHz) cross-polarized beams and 3 isolated H-Band (1695-2690 MHz) cross-polarized beams. Each beam has 4 ports, or 4x4 MIMO.

RET available for each F-Band & H-Band beam from 0° to 15°.

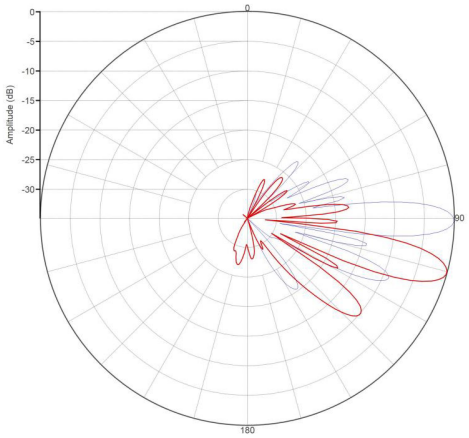
LTE® LENS TECHNOLOGY ENABLED

PATTERN RESULTS:

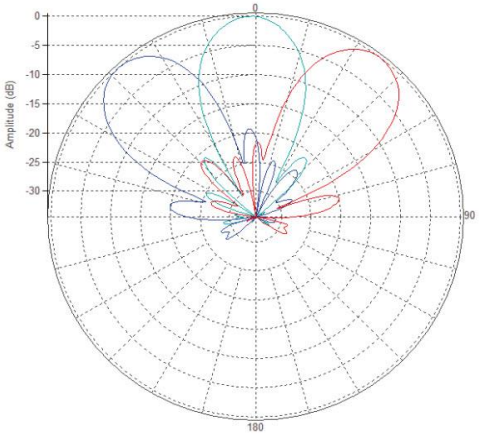
F-Band Horizontal Pattern (3.5GHz)



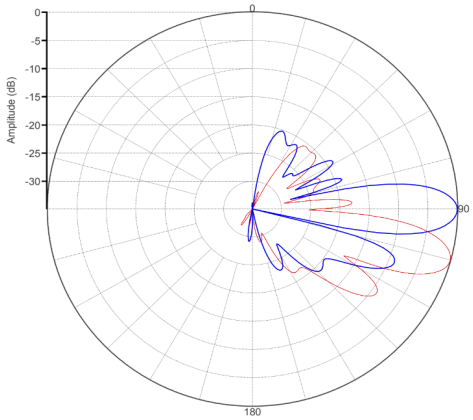
F-Band Vertical Pattern at 0° and 15° Tilt (3.5GHz)



High-Band Horizontal Pattern (1.8GHz)



High-Band Vertical Pattern at 0° and 15° Tilt (1.8GHz)



PRELIMINARY

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

MATSING®

LENS TECHNOLOGY ENABLED

MS-MBA-3.3-F4A3-H4A2

TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200MHz	1695-2690MHz
Gain	20dBi	20dBi
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)	40° 23°	40° 23°
Vertical Beamwidth (3dB level)	8°	12°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	3	3
Number of Ports Per Beam Total Number of Ports	4 12	4 12
Tilt Per Cross-Pol	0° to 15°	0° to 15°
USLS (Upper Sidelobe Suppression)	<-16dB	<-16dB
Azimuth Sidelobe Level	<-18dB	<-16dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>28dB	>26dB
Power Rating	150W per port	200W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	12 x 4.3-10 female	12 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	210.8 x 61.7 x 68.3 cm 83 x 24.3 x 26.9 inch
Antenna Weight	63.7 kg 140.4 lbs
Radome Material	Fiber Glass
Mounting	Standard 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: 912/205 Lateral: 1161/261 Rear: 1070/240.6