

MS-MBA-5.3-F2-H2

Multi-beam Base-Station Antenna (MBA)

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for six to nine sector LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated high-frequency (1695-2690MHz) cross-polarized beams and 5 isolated F-Band Frequency (3300-4200MHz) cross polarized beams. Each beam has 2 ports, or 2X2 MIMO. Each beam can be tilted independently (0-30° for 1695-2690MHz and 0-20° for 3300-4200MHz).

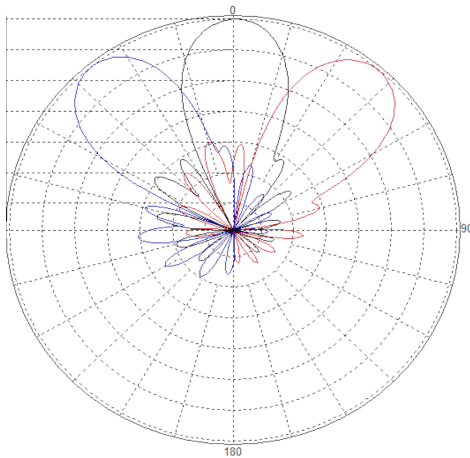
*Optional Packages:

- a) MS-MBA-5.3-F2-H2-M : AISG 2.0 Remote Electrical Tilt, multi RET configuration
- b) MS-MBA-5.3-F2-H2-S : AISG 2.0 Remote Electrical Tilt, single RET configuration

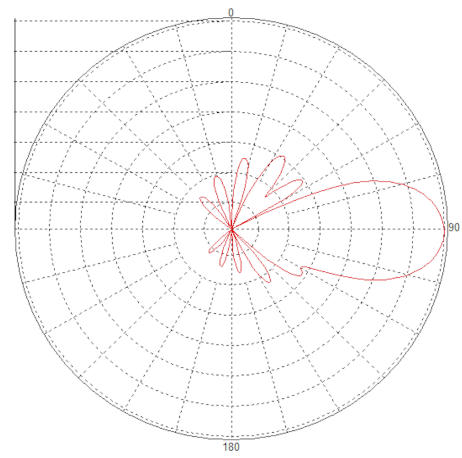


PATTERN RESULTS:

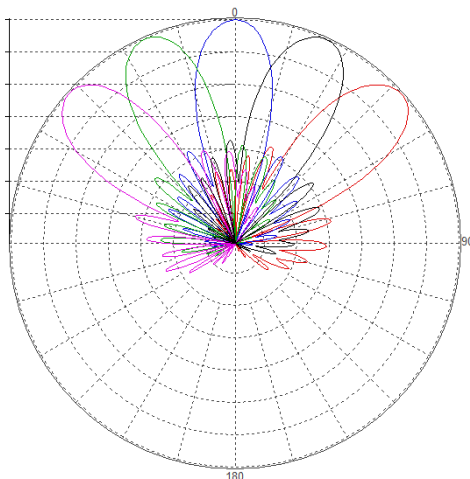
High-Band Horizontal Pattern (1.80GHz)



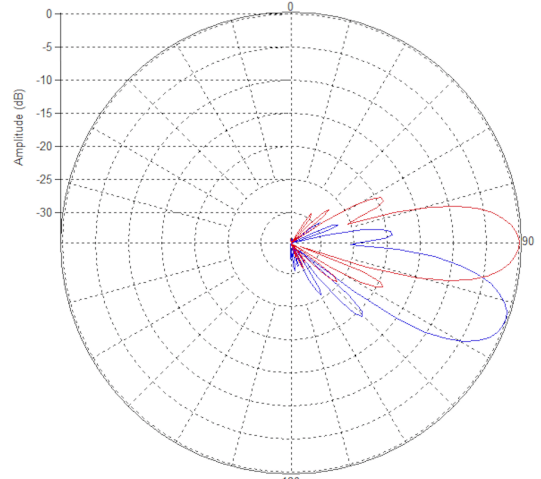
High-Band Vertical Pattern (1.80GHz)



CBRS-Band Horizontal Pattern (3.5GHz)



CBRS-Band Vertical Pattern 0° tilt to 20° tilt (3.5GHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200 GHz	1695 - 2690 MHz
Gain	21dBi	18dBi
Return Loss	>15dB	>15dB
Polarization	Dual Slant $\pm 45^\circ$	Dual Slant $\pm 45^\circ$
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB)	24°	40°
Horizontal Beamwidth (3dB)	14°	23°
Vertical Beamwidth (3dB)	14°	23°
Beam Cross-over	7dB typical	10dB typical
Total Number of Beams	5	3
Number of Ports per Beam	2	2
Number of Ports Total	10	6
Tilt Per Cross-Pol; (Two adjustments per beam)	0° to 20°	0° to 30°
First Sidelobe Level	<-16dB	<-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	16 4.3-10 DIN female	

MECHANICAL DATA

Dimensions (H x W x D)	94 x 66 x 64 cm 37 x 26 x 25 inch
Antenna Weight	25kg 55lbs
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	TBD

CONNECTOR LAYOUT:

