



MS-MBA-5-F2

Lens Technology Enabled™ Multi-Beam Base-Station Antenna utilizes a patented lens design with 5 isolated F-Band (3300 - 4200MHz) cross-polarized beams. Each beam has 2 cross-polarized ports for supporting 2X2 MIMO.

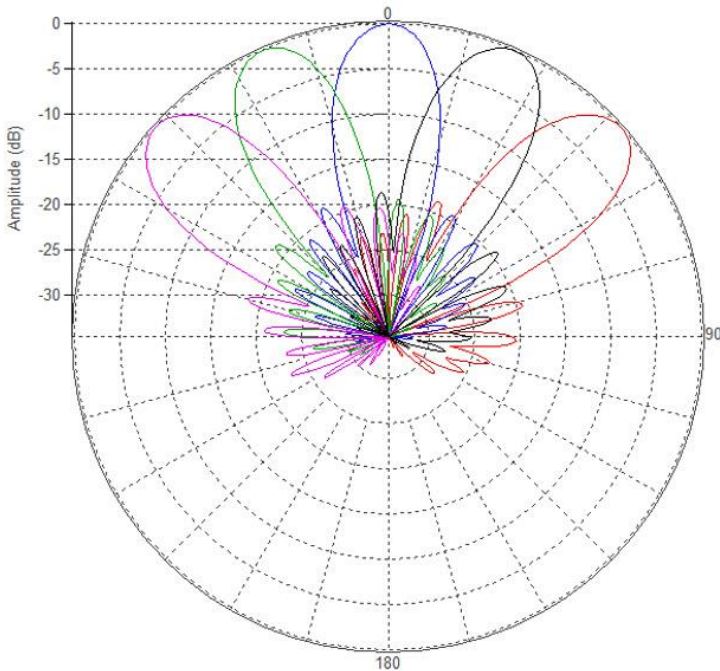
Tilt is adjustable from 0° to 20° for each beam.



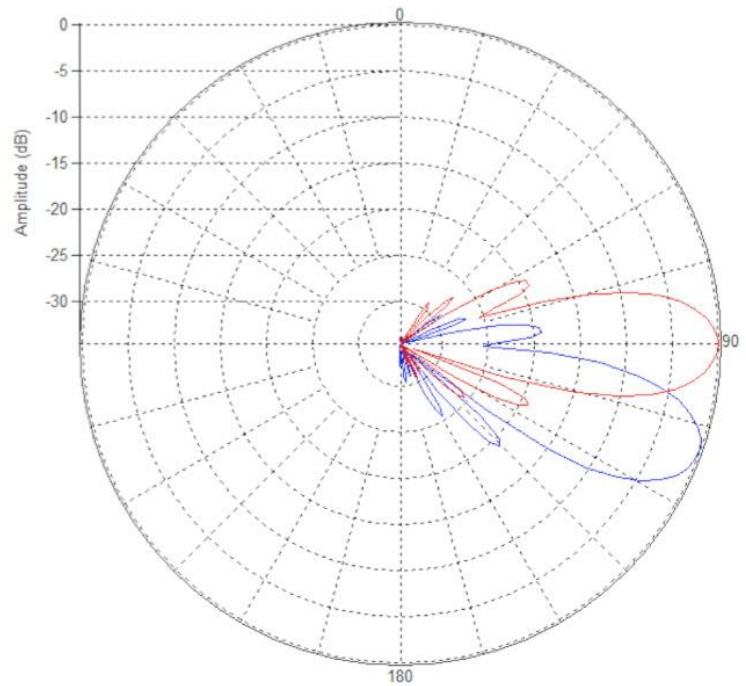
PRELIMINARY

PATTERN RESULTS:

F-Band Horizontal Pattern (3.5GHz)



F-Band Vertical Pattern at 0° and 20° Tilt (3.5GHz)





TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300 MHz – 4200 MHz
Gain	20dBi
Return Loss	> 15dB
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beam-width (10dB)	27°
Horizontal Beam-width (3dB)	15°
Vertical Beam-width (10dB)	27°
Vertical Beam-width (3dB)	15°
Beam Cross-over	6 – 8 dB typical
Total Number of Beams	5
Number of Ports per Beam	2
Total Number of Ports	10
Tilt per Cross-Pol	0°- 20°
First Sidelobe Level	< -18dB
Front to Back Ratio	>28dB
Isolation Port to Port -Polarization	>28dB
Isolation Port to Port – Beam	>28dB
Power Rating	150W per port
Intermodulation	<-153dBc
Impedance	50 Ohm
Connector Quantity and Type	10 x 4.3-10 female

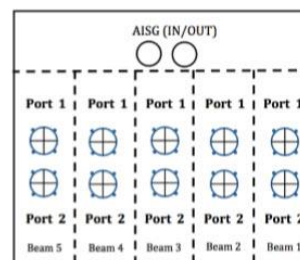
MECHANICAL DATA

Dimensions (H x W x D)	53 x 61 x 63 cm
	21 x 24 x 25 inch
Antenna Weight	16kg
	36lbs
Radome Material	Fibre Glass
Mounting	Standard pipe mount
	Compatible pipe diameter:
	6.1 – 11.4 cm 2.4 – 4.5 inch

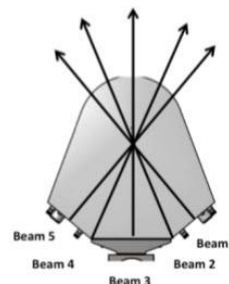
ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind Load (Lateral)	60lbf @ 150km / hr
	267N @ 150km / hr

Connector Layout



Beam Layout



PRELIMINARY