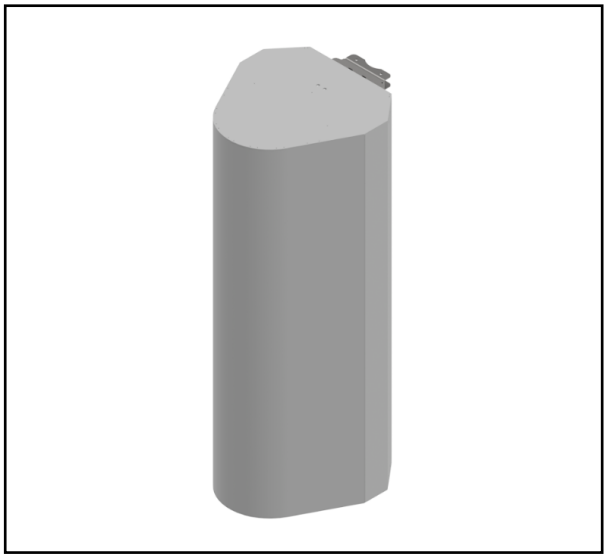
MATSING®

LENS TECHNOLOGY ENABLED

MS-MBC-6-H4-12

Multi-Beam Cylindrical Base-Station Lens Antenna;
Six isolated high frequency (1695-2690 MHz) cross-polarized beams.
Each beam has four ports to support 4x4 MIMO.
RET (Smart Bias Tee & AISG 2.0) with 2°-15° for each beam.



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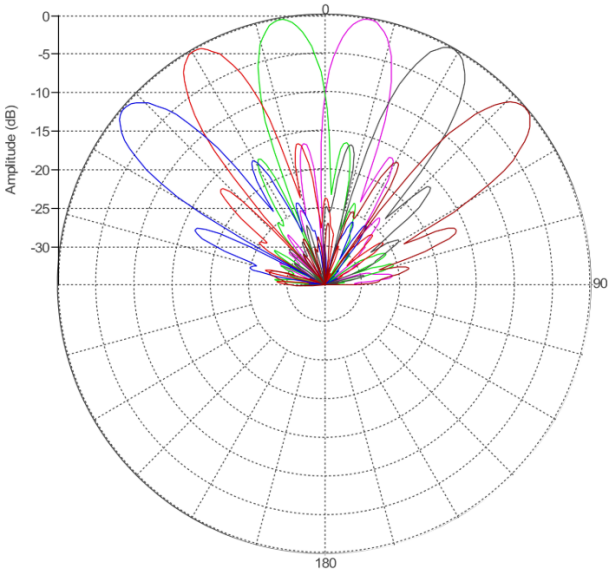
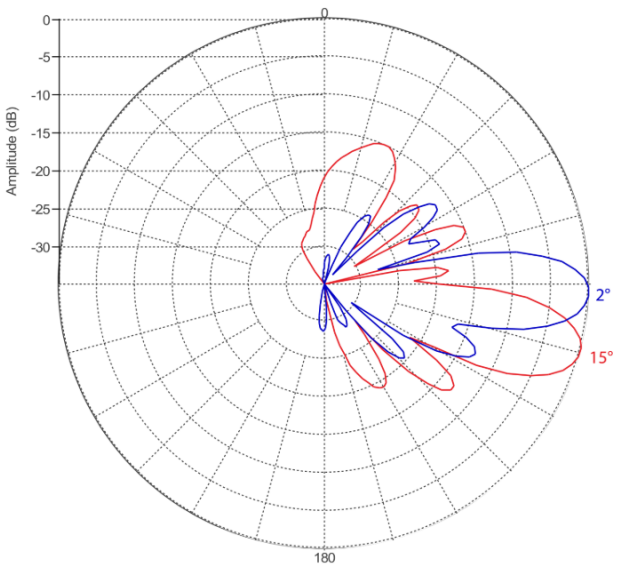
PRELIMINARY

PATTERN RESULTS:

Horizontal Pattern (1.80GHz)



Vertical Pattern at 2° and 15° (1.80GHz)



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TECHNICAL SPECIFICATIONS

Frequency	1695 – 2690 MHz
Gain	21.8dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (3dB level) Horizontal Beamwidth (10dB level)	12° 20°
Vertical Beamwidth (3dB level)	12.5°
Beam Cross-over	10dB typical
Total Number of Beams	6
Number of Ports per Beam	4
Number of Ports Total	24
RET (AISG & SBT)	2°-15°
1st Upper Side Lobe Suppression	15dB
Azimuth Sidelobe Level	-18dB
Front to Back Ratio @ 180°	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	24 x 4.3-10 female

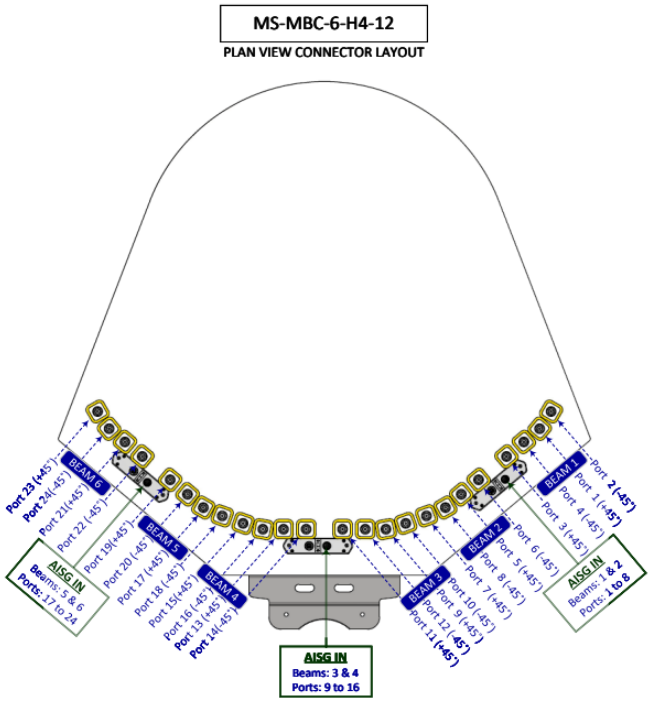
MECHANICAL DATA

Dimensions (H x W x D)	130.3 x 108.2 x 100.3 cm 51.3 x 42.6 x 39.5 inch
Antenna Weight	75 Kg 165 lbs
Radom	Fibreglass
Mounting	Standard position pipe mount Compatible pipe diameter: 10.1 – 15.2 cm 4 – 6 inch

ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind Load @150 km/hr	N/lbf Frontal: 1671/376 Lateral: 2215/498 Rear: 2202/450

CONNECTOR LAYOUT:



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