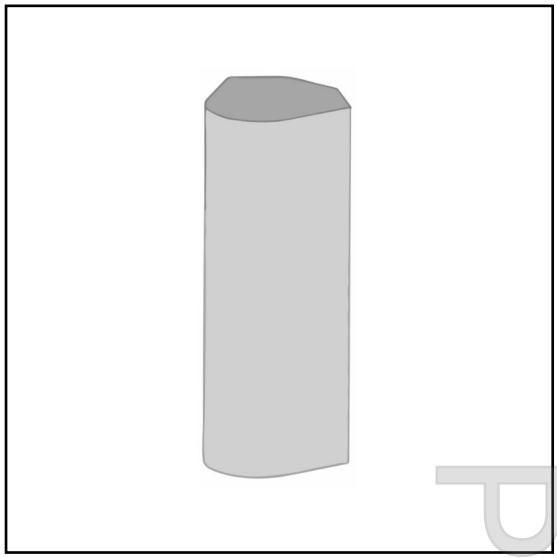
MATSING®

LENS TECHNOLOGY ENABLED

MS-MBC-3-L4-16



Multi-Beam Cylindrical Base-Station Lens Antenna;
Three isolated Low frequency (698 - 960 MHz) cross-polarized beams.
Each beam has four ports to support 2x2 MIMO.
RET (Smart Bias Tee & AISG 2.0) with 2°-15° for each beam.

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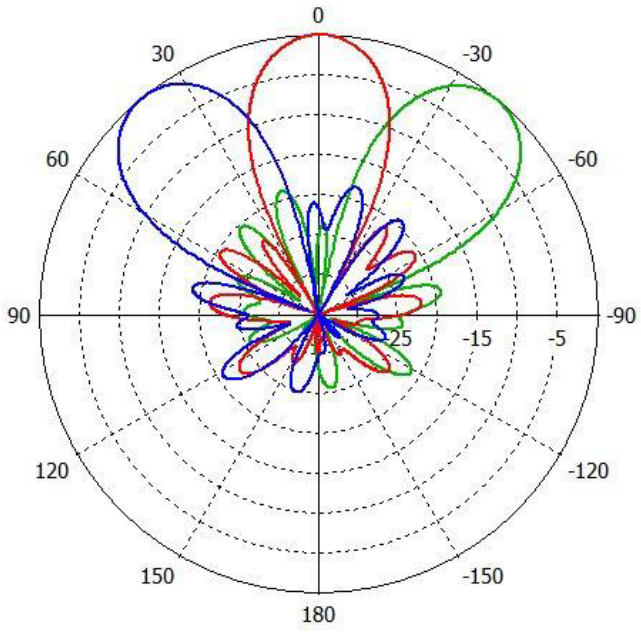
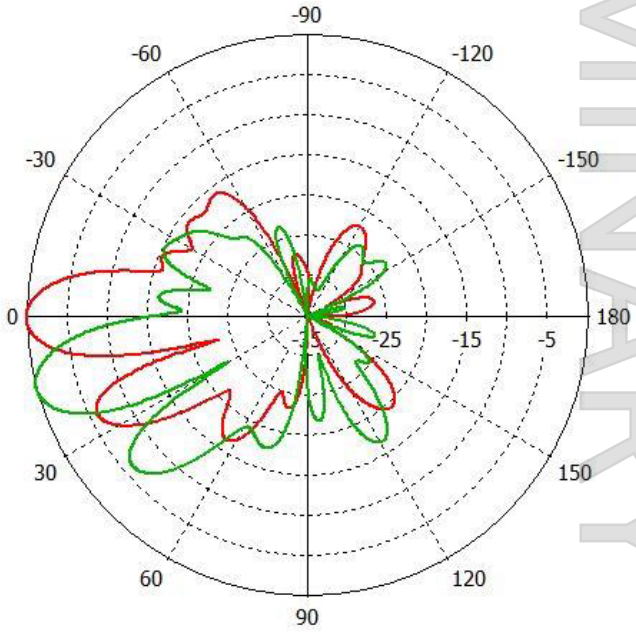
PRELIMINARY

PATTERN RESULTS:

Horizontal Pattern (800MHz)



Vertical Pattern at 2° tilt and 15° tilt (800MHz)



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TECHNICAL SPECIFICATIONS	
Frequency	698 - 960 MHz
Gain	17dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	40° 24°
Vertical Beamwidth (3dB)	16°
Beam Cross-over	10dB typical
Total Number of Beams	3
Number of Ports per Beam	4
Number of Ports Total	12
RET	2° to 15°
First Sidelobe level	< -15dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>26dB
Power Rating	150W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	12 x 4.3-10 female

MECHANICAL DATA	
Dimensions (H x W x D)	245 x 96.5 x 106 cm 96.4 x 38 x 41.8 inch
Antenna Weight	127.5 kg 281 lbs
Radome Material	Fiber Glass
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 @ 150km/h	N/lbf Frontal: 1647/370.3 Lateral: 2334 / 524.7 Rear: 1931 / 434.1

CONNECTOR LAYOUT: