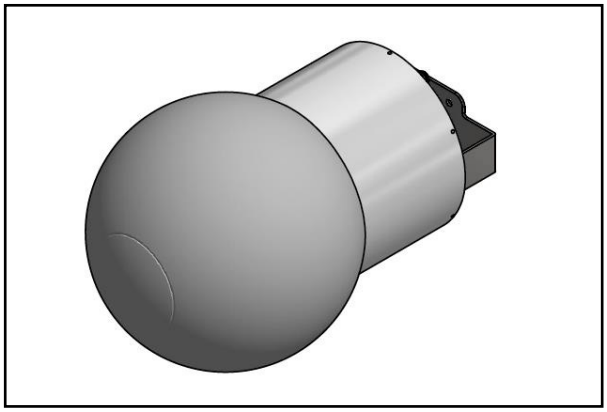
MATSING®

LENS TECHNOLOGY ENABLED

MS-SB19-EHF

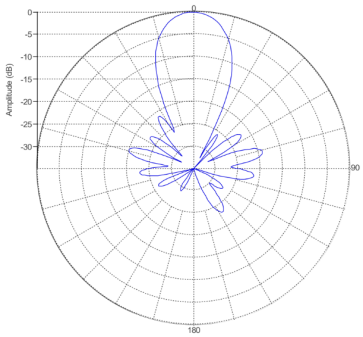


Lens Technology Enabled™ Base- Station Antenna perfect for stadium applications, utilizes a patented spherical lens design with 1 ultra- wideband (1.4-4.2 GHz) dual-polarized Beam. Each Beam has 2 ports for supporting 2X2 MIMO and low side-lobes.

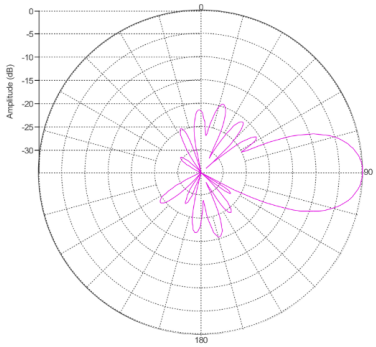
LTE® LENS TECHNOLOGY ENABLED

PATTERN RESULTS:

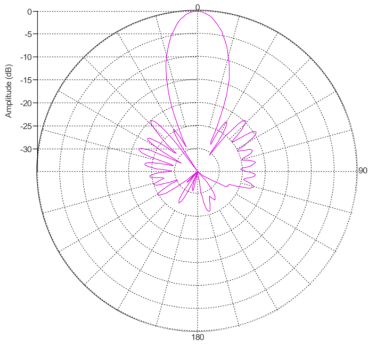
High-Band Horizontal Pattern (1.5GHz)



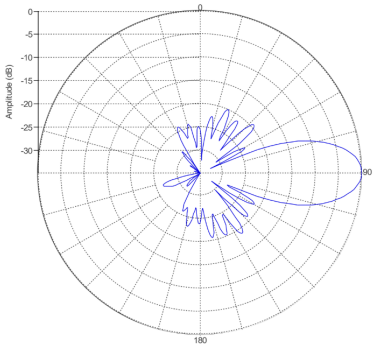
High-Band Vertical pattern (1.5GHz)



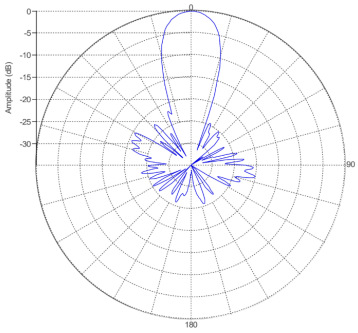
High-Band Horizontal Pattern (2.2GHz)



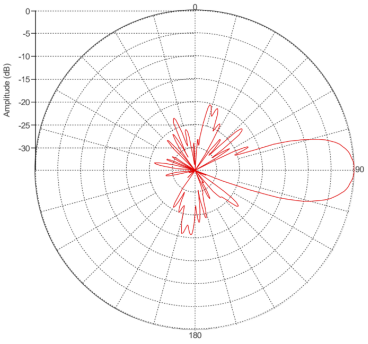
High-Band Vertical pattern (2.2GHz)



F-Band Horizontal Pattern (3.8GHz)



F-Band Vertical pattern (3.8GHz)



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TECHNICAL SPECIFICATIONS PER BEAM

Frequency	1427-1518 MHz	1710-2690 MHz	3.1-4.2 GHz
Gain	16±1	18.5±1	18±1
VSWR	1.5:1	1.5:1	1.5:1
Polarization	±45°	Dual Slant ±45°	±45°
Horizontal Coverage	35°	30°	30°
Horizontal Beamwidth (3dB)	24±1.5°	19±2°	19±3°
Vertical Beamwidth (3dB)	24±1.5°	19±2°	19±3°
Total Number of Beams	1	1	1
Number of Ports per Beam	2	2	2
Azimuth Sidelobe Level	-17dB	-19dB	-19dB
Elevation Sidelobe Level	-17dB	-19dB	-19dB
Front to Back Ratio, 180±15°	25	25	25
Isolation Port to Port	30dB	30dB	29dB
Total Power Max	150W per port		
PIM, 3rd order, 2x20w	-153dBc		
Impedance	50 ohm		
Connector Quantity and Type	2 x 4.3-10 female		

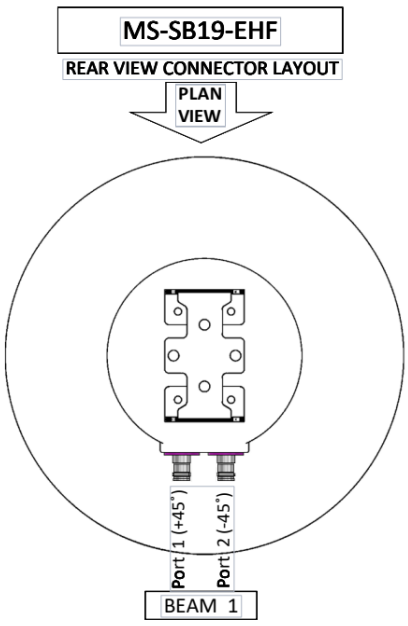
MECHANICAL DATA

Dimensions (H x W x D)	44.9 x 44.9 x 73.6 cm 17.7 x 17.7 x 29 inch
Antenna Weight	9.94 kg 21.9 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/ibf Frontal: 84.4/19 Lateral: 154/34.6

CONNECTOR LAYOUT



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