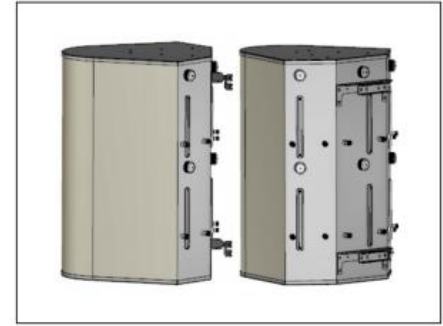


MS-MBA-4.2-H2-L2

Multi-Beam Dual Band Spherical Lens Antenna: 4 independent high-frequency (1695-2690MHz) cross-polarized beams and 2 independent low-frequency (698-960MHz) cross-polarized beams with 2X2 MIMO support. Each beam has independent tilt adjust, for high frequency 0°-20° and for low frequency 0°-40°.

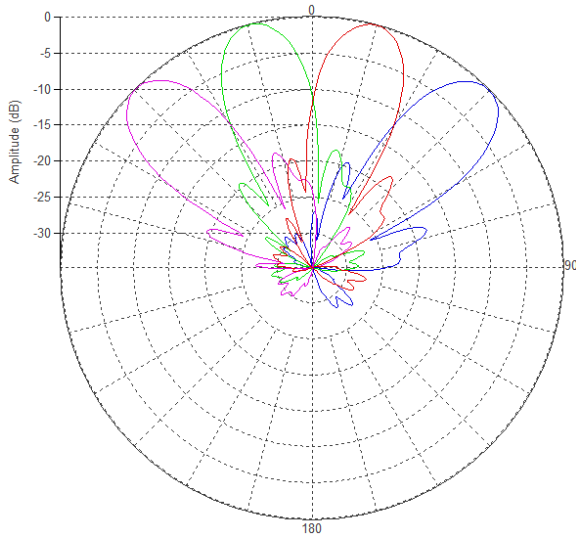
Improved design includes;

1. Superior Pattern Performance
2. Individual RET Capability for each beam

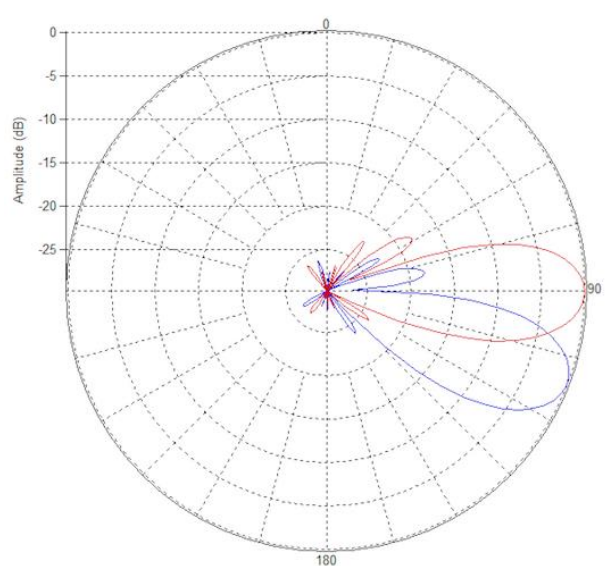


PATTERN RESULTS:

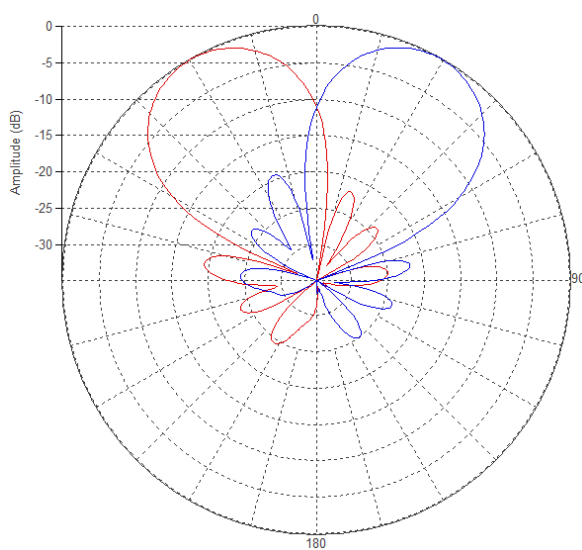
High-band Horizontal Pattern (1.92GHz)



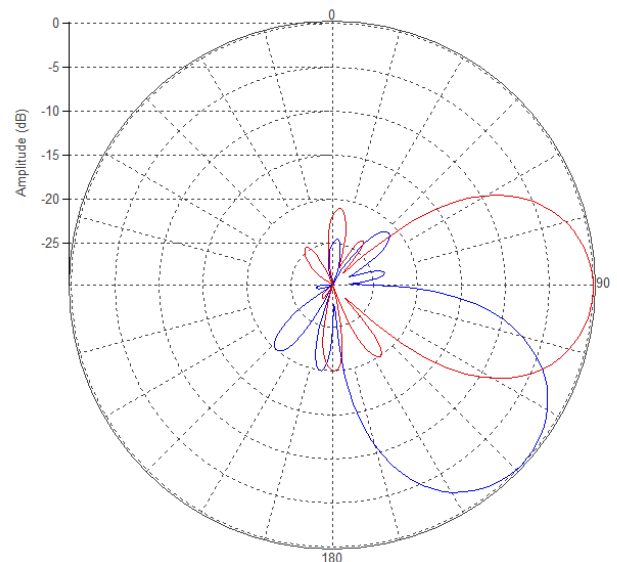
High-band Vertical Pattern (1.92GHz) at tilt 0° and 20°



Low-band Horizontal Pattern (0.8GHz)



Low-band Vertical Pattern (0.8GHz) at tilt 0° and 40°





ESTIMATED TECHNICAL SPECIFICATIONS PER BEAM

Frequency	698-960 MHz	1695-2690 MHz
Gain	14.2dBi	19dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level)	60°	30°
Horizontal Beamwidth (3dB level)	34°	17°
Vertical Beamwidth (10dB level)	60°	30°
Vertical Beamwidth (3dB level)	34°	17°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	2	4
Tilt Per Cross Pol	0° to 40°	0° to 20°
Sidelobe Level	<-15dB	<-16dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port -Polarization	>28dB	>28dB
Isolation Port to Port – Beam	>26dB	>28dB
Power Rating	200W per port	250W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	4 x 4.3-10 female	8 x 4.3-10 female

ESTIMATED MECHANICAL DATA

Dimensions (H x W x D)	110 x 61 x 66 cm
	43 x 24 x 26 inch
Antenna Weight	35kg/77lbs
Radome Material	Fiber Glass
Mounting	Adjustable Clamps
	Compatible pipe diameter:
	6.1 – 11.4 cm 2.4 – 4.5 inch
ESTIMATED ENVIRONMENTAL RATINGS	
Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load (Front)	462 N @ 151km/hr
	104 lbf @ 151km/hr