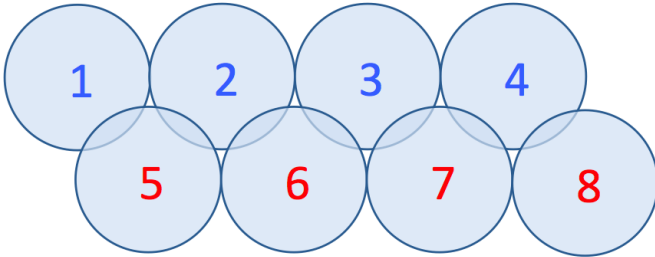


MS-8L120

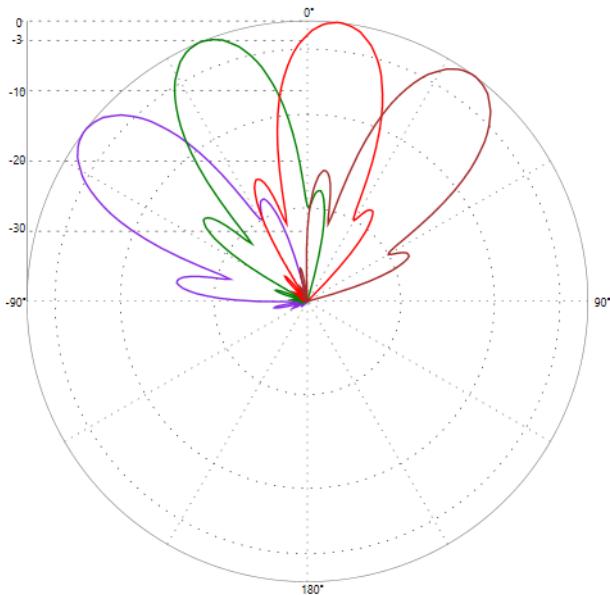
Multi-Beam Spherical Lens Antenna: 8 independent low-frequency (698-896MHz) cross-polarized beams with 2X2 MIMO support per beam.

Beam Layout:

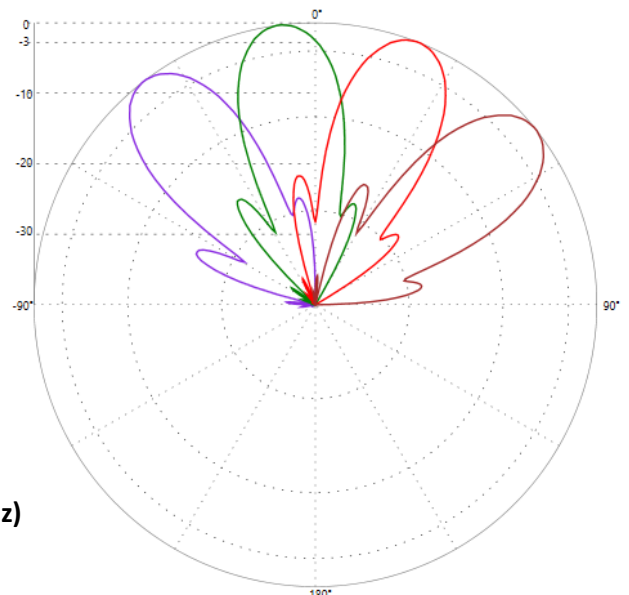


Pattern Results:

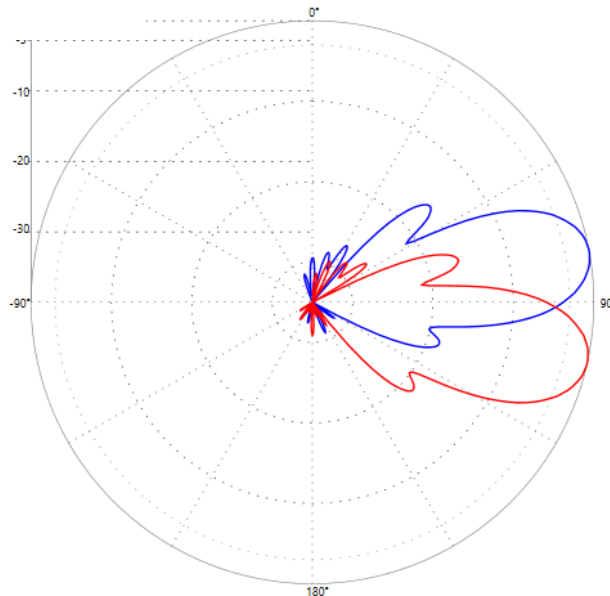
Horizontal Pattern Row 1 (850MHz)



Horizontal Pattern Row 2 (850MHz)



Vertical Pattern (850MHz)





TECHNICAL SPECIFICATIONS PER BEAM

Frequency	896-698 MHz
Gain	19dBi
VSWR	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$
Horizontal Coverage per row	120°
Total coverage	135°
Horizontal Beamwidth (10dB)	30°
Horizontal Beamwidth (3dB)	17°
Vertical Beamwidth (10dB)	30°
Vertical Beamwidth (3dB)	17°
Beam Cross-over	10dB typical
Total Number of Beams	8
Tilt	Factory Set
First Sidelobe Level	<-15dB
Front to Back Ratio	>28dB
Isolation Port to Port -Polarization	>28dB
Isolation Port to Port – Beam	>26dB
Power Rating	250W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	16 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 120cm/47inch Antenna dimensions: 140 x 140 x 160 cm 55 x 55 x 62 inch
Antenna Weight	75kg/165lbs
Radome Material	Fibre Glass
Mounting	2 position 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 (Frontal)	959N @ 150km/hr 216lbf @ 150km/hr

CONNECTOR LAYOUT:

