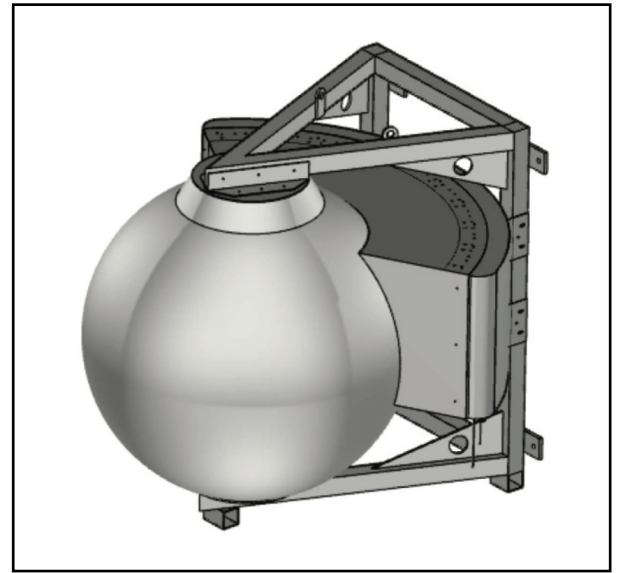


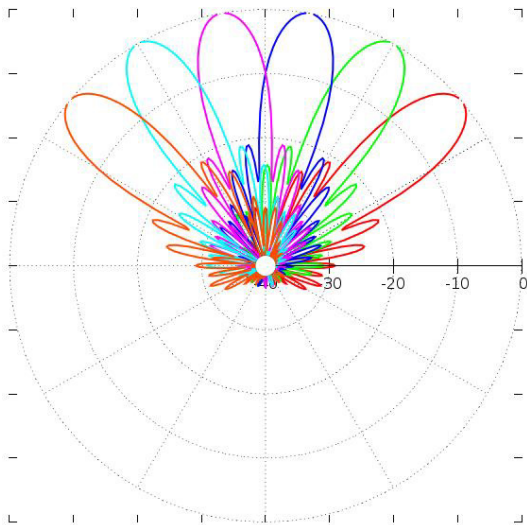
MS-6.3DB90

Multi-Beam Dual Band Spherical Lens Antenna: 3 independent low frequency (698MHz - 960MHz) cross-polarized beams and 6 independent high-frequency (1695 - 2690MHz) cross-polarized beams, with 0-15° RET. Each RET motor controls two high-frequency beams and one low-frequency beam.

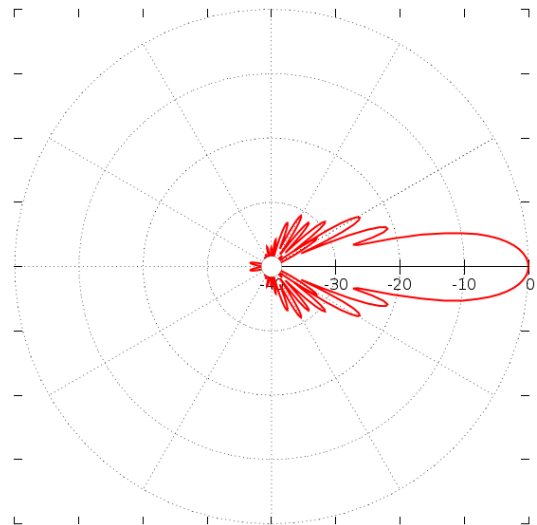


PATTERN RESULTS:

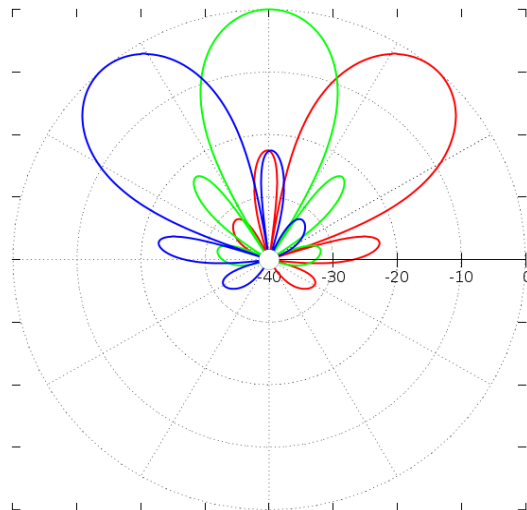
High-Band Horizontal Pattern (1.80GHz)



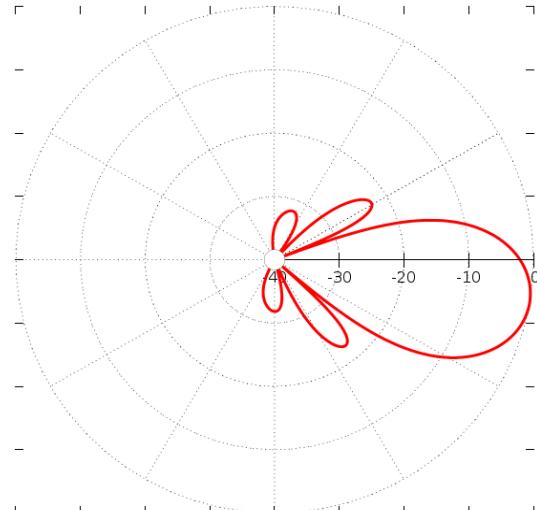
High-Band Vertical pattern (1.80GHz)



Low-Band Horizontal Pattern (0.85GHz)



Low-Band Vertical Pattern (0.85GHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	698-960 MHz	1695-2690 MHz
Gain	16.5dBi	22.8dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$	Dual Slant $\pm 45^\circ$
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level)	40°	20°
Horizontal Beamwidth (3dB level)	23°	12°
Vertical Beamwidth (10dB level)	42°	21°
Vertical Beamwidth (3dB level)	23°	12°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	3	6
RET available, each RET motor controls 2 high-band beams and 1 low-band beam	10° to 25°	0° to 15°
First 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	250W per port	250W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	6 X 4.3-10 female	12 X 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 90cm/35inch Antenna dimensions: 105 x 117 x 113 cm 41.4 x 46 x 44.6 inch
Antenna Weight	53kg/117lbs [Without RET] 57kg/126lbs [With RET]
Radome Material	Fiber Glass
Mounting	Adjustable Clamps 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/lbf Frontal: 646/145 Lateral: 753/169

CONNECTOR LAYOUT:

