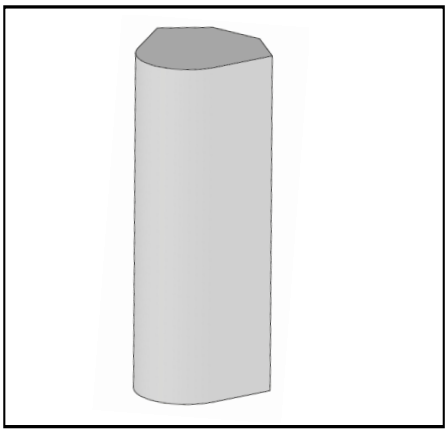
MATSING®

LENS TECHNOLOGY ENABLED

MS-MBC-4.2-H4-8-T4-16



Multi-Beam Dual Band Cylindrical Lens Antenna:

4 independent high-frequency (1695-2690 MHz) dual-polarized beams and 2 independent low-frequency (617-896 MHz) dual-polarized beams with 4X4 MIMO support .Each beam has independent RET , for high frequency 2°-12° and for low frequency 2°-17°.

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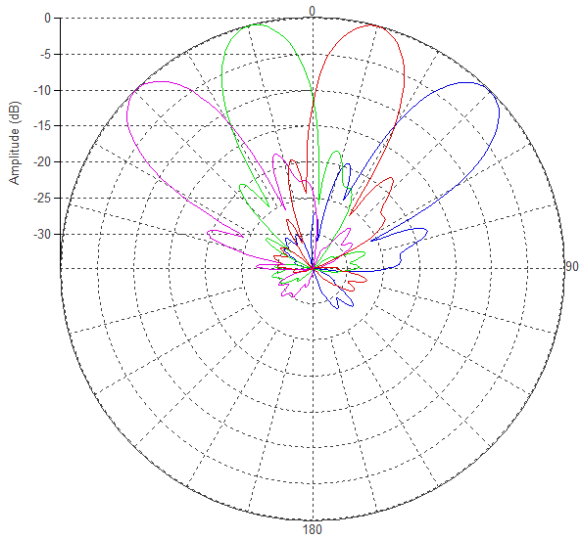
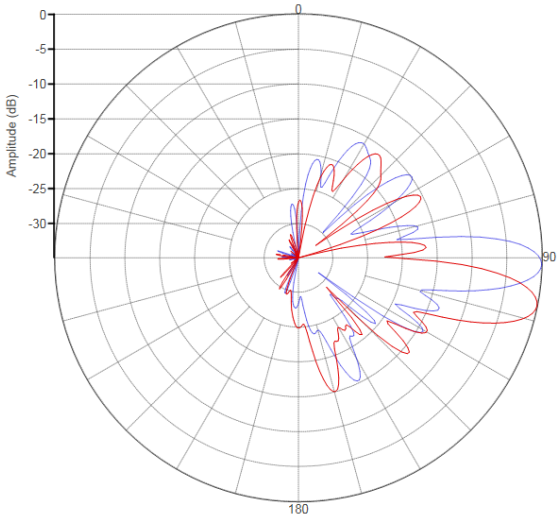
PATTERN RESULTS:

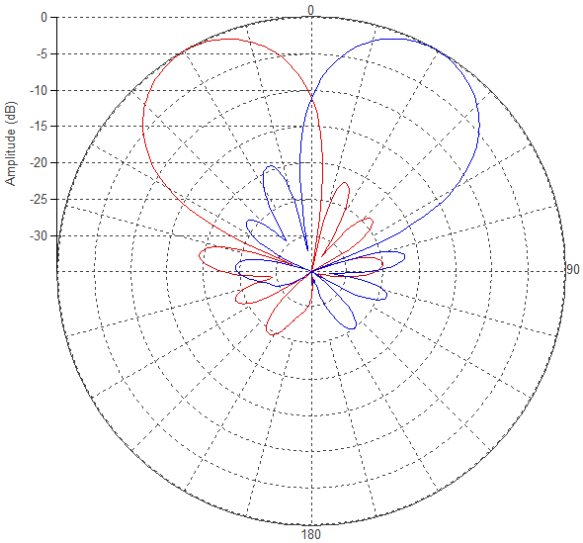
High-band Horizontal Pattern (1.92GHz)



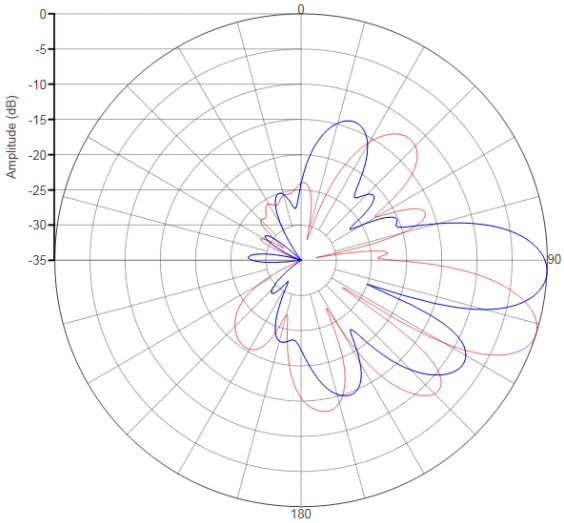
High-band Vertical Pattern (1.92GHz) at tilt 2° and 12°



Low-band Horizontal Pattern (0.8GHz)



Low-band Vertical Pattern (0.8GHz) at tilt 2° and 17°



PRELIMINARY

EMAIL: info@matsing.com WEBSITE: www.matsing.com PHONE: (949)585-5144

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TECHNICAL SPECIFICATIONS PER BEAM		
Frequency	617-896 MHz	1695-2690 MHz
Gain	15.6dBi	21dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	60° 34°	30° 17°
Vertical Beamwidth (3dB level)	17°	8.5°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	2	4
Total Number of Ports	8	16
Beam Tilt	2° to 17°	2° to 12°
First Upper Sidelobe Level	<-15dB	<-15dB
Front to Back Ratio at 180°	>28dB	>28dB
Isolation Port to Port - Polarization	>26dB	>26dB
Isolation Port to Port - Beam	>26dB	>26dB
Power Rating	250W per port	200W per port
PIM, 3rd order, 2x20W	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	8 x 4.3-10 female	16 x 4.3-10 female

MECHANICAL DATA	
Dimensions (H x W x D)	232 X61.7X72.3cm 91X24.3X28.5inch
Antenna Weight	80kg 176lbs
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 loading @ 150km/hr	Frontal: 950 N / 214 lbf Lateral: 1480N /334 l Rear: 1364N/ 308 lbf

CONNECTOR LAYOUT:

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