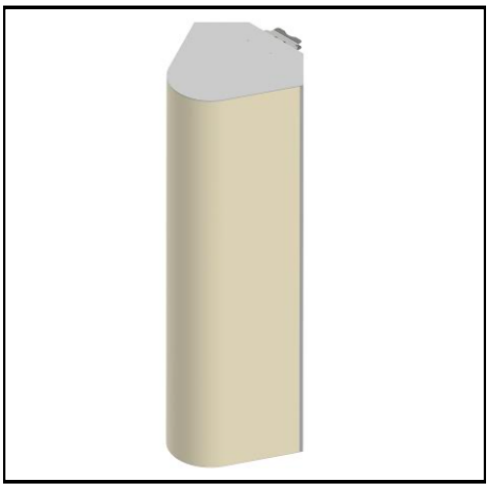
MATSING®

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. Each Beam has 4 ports to support 4 X 4 MIMO .
RET (Smart Bias Tee & AISG 2. 0) for high frequency 2°- 12° and for low frequency 2°-17°.

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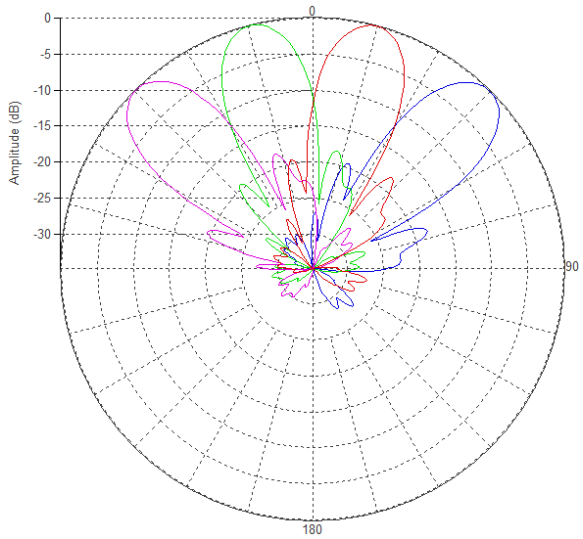
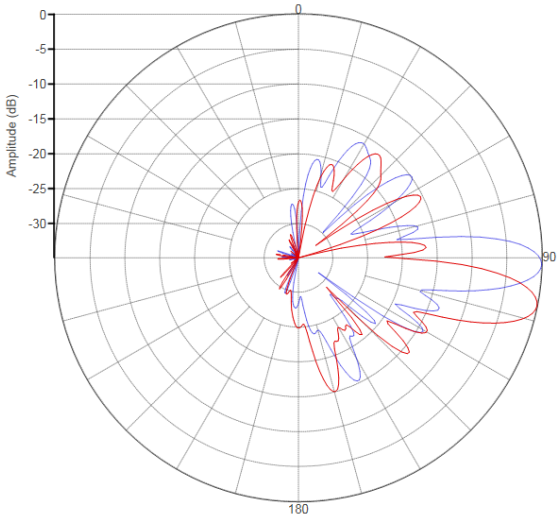
PATTERN RESULTS:

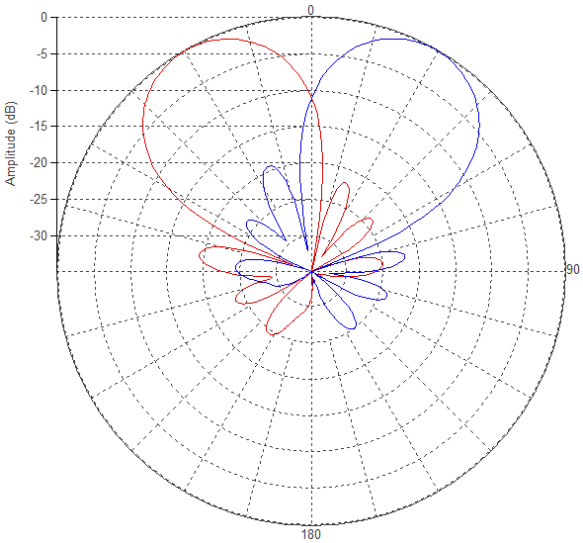
High-band Horizontal Pattern (1.92GHz)



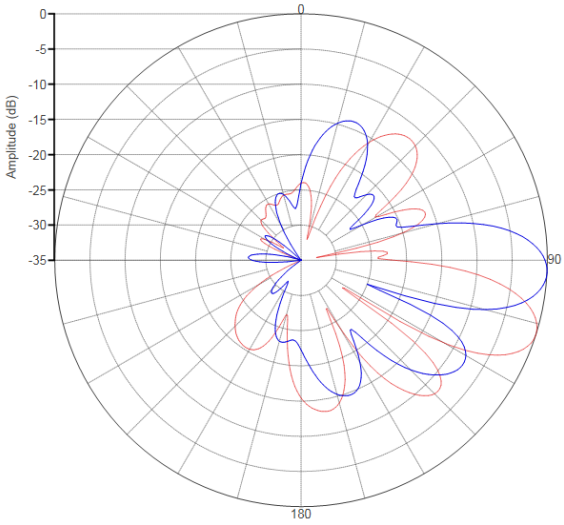
High-band Vertical Pattern (1.92GHz) at tilt 2° and 12°



Low-band Horizontal Pattern (0.8GHz)



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



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

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

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
RET (AISG & SBT)	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

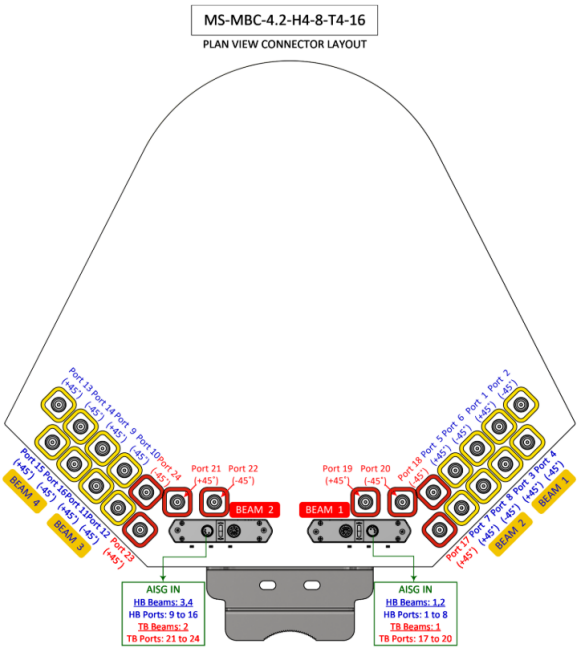
MECHANICAL DATA

Dimensions (H x W x D)	230 x 77.2 x 78.4cm 90.9 x 30.4 x 30.9 inch
Antenna Weight	81.6kg 179.8lbs
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	N/lbf Frontal: 1283/288.4 Lateral: 1584/356.1 Rear: 1484/333.6

CONNECTOR LAYOUT:



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