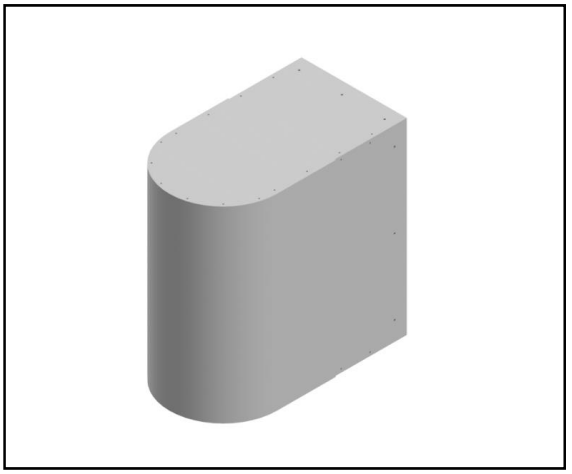
MATSING®

LENS TECHNOLOGY ENABLED



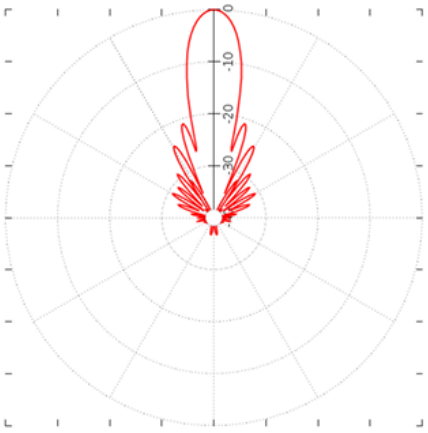
MS-SB34-F-H

Lens Technology Enabled™ Single -Beam Dual Band Base-Station Antenna utilizes a patented spherical lens design with 1 isolated F- Band (3300MHz – 4200MHz) cross-polarized beams, 1 isolated High Band (1695 MHz – 2690 MHz) cross -polarized beam , each F & H Band beams has 2 ports to support 2X2 MIMO.

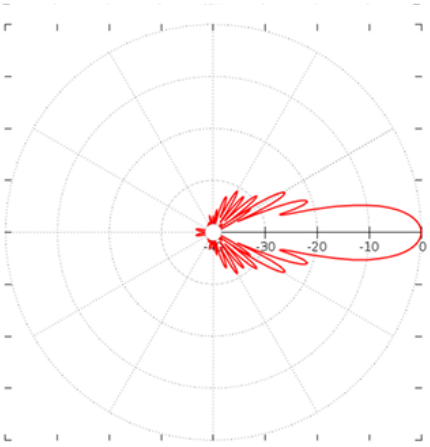
LENS TECHNOLOGY ENABLED®

PATTERN RESULTS:

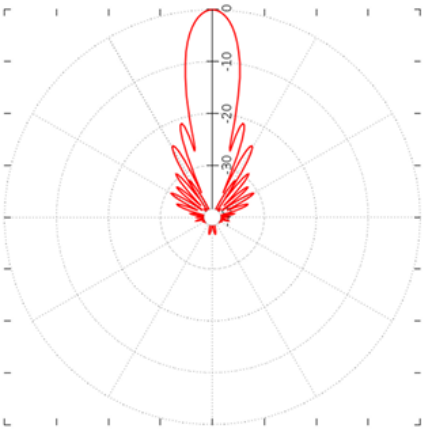
F-Band Horizontal Pattern (3.5GHz)



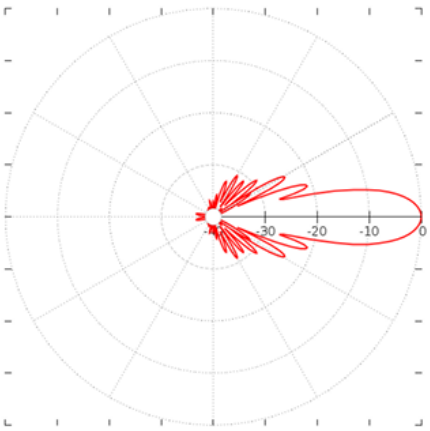
F-Band Vertical pattern (3.5GHz) at tilt 0°



High-Band Horizontal Pattern (1.92GHz)



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



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

MATSING®

LENS TECHNOLOGY ENABLED

MS-SB34-F-H

TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200 MHz	1695-2690 MHz
Gain	13.5dBi	14dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Beamwidth (10dB) Horizontal Beamwidth (3dB)	34° 13°	30° 13°
Vertical Beamwidth (10dB) Vertical Beamwidth (3dB)	34° 16°	30° 15°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	1	1
Number of Ports per Beam	2	2
Number of Ports Total	2	2
First Sidelobe Level	<-16dB	<-15dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>28dB	>28dB
Power Rating	200W per port	200W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	2 x 4.3-10 female	2 x 4.3-10 female

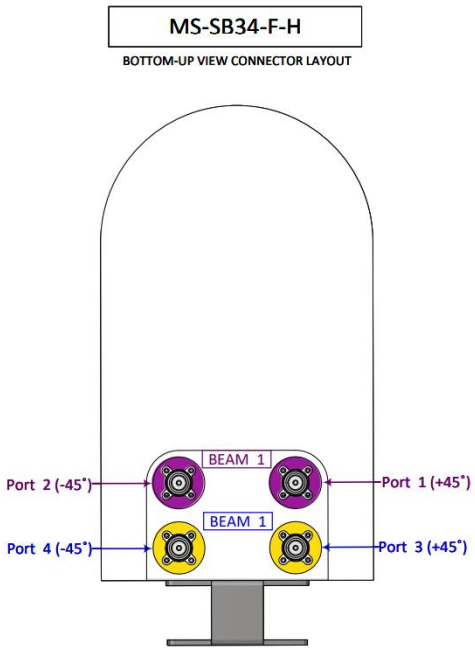
MECHANICAL DATA

Dimensions (H x W x D)	40.3 x 21.3 x 41.6 cm 15.9 x 8.4 x 16.4 inch
Antenna Weight	6 kg 13.2 lbs
Radome Material	Fiber Glass
Mounting	Standard 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 @150km/hr	N/lbf Frontal: 44.6 / 10 Lateral: 155.3 / 34.9

CONNECTOR LAYOUT



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