

DATASHEET

SL-520A-501

Broadband, High Gain Directional C-Band Antenna, 4.4-6.0 GHz



The SL-520A-501 is a broadband, High Gain Antenna, providing continuous communications coverage across the spectrum of 4.4 GHz to 6.0 GHz and beyond.

Its primary use is to enhance Wi-Fi network signals in 802.11a and 802.11n modes in the Americas, and in the US U-NII bands (5.150-5.350, 5.470-5.725 and 5.725-5.825 GHz). In Europe the SL-520A-501 will support 802.11h ETSI HiperLAN/1 (5.150-5.350 GHz) and HiperLAN/2 (5.470-5.725 GHz) applications simultaneously. . . and, in Asia, the very same antenna will support High Speed Wireless Access applications at 5.150-5.250 GHz.

The broadband nature of this Directional Antenna allows concurrent operation on all of the above services, in addition to doubling up as a Directional Antenna in C-Band Telemetry and Video applications. For example, it can be used as a portable, high gain (+9 dBil), search C-Band Antenna, to enhance the downlink video feeds of remote control (RC) planes and UAVs (drones), boats, cars and robots; or to connect wireless security equipment, such as cameras. It can also be used as a point to point 5 GHz Antenna for short to medium ranges.

SL-520A-501 Technical Specifications

- Frequency range: 4400-6000 MHz
- Coverage: Directional
- Patterns:
 - E-plane** ([plane of elements](#))
 - H-plane** ([plane perpendicular to elements](#))
- Polarization: Linear, Horizontal or Vertical, depending on installed orientation
- Peak Gain: +9 dBil
- Nominal Impedance: 50 ohm (RF), Short Circuit at DC
- Input Power: 10 Watts CW
- VSWR: under 3.0 [GRAPH](#)
- Connector: SMA, Female
- Dimensions: 4 cm (1.5") OD x 11 cm (4.2") L
- Mounting: 4 screws
- Operating Temperatures: -40°C to +85°C
- Weight: 250 g / 0.5 lbs
- Shipping Weight: 300 g / 0.6 lbs



antennas.us

a Sales division of Myers Engineering International, Inc
5425 NW 24th Street #201 ▪ Margate, Florida 33063 ▪ 954-345-5005

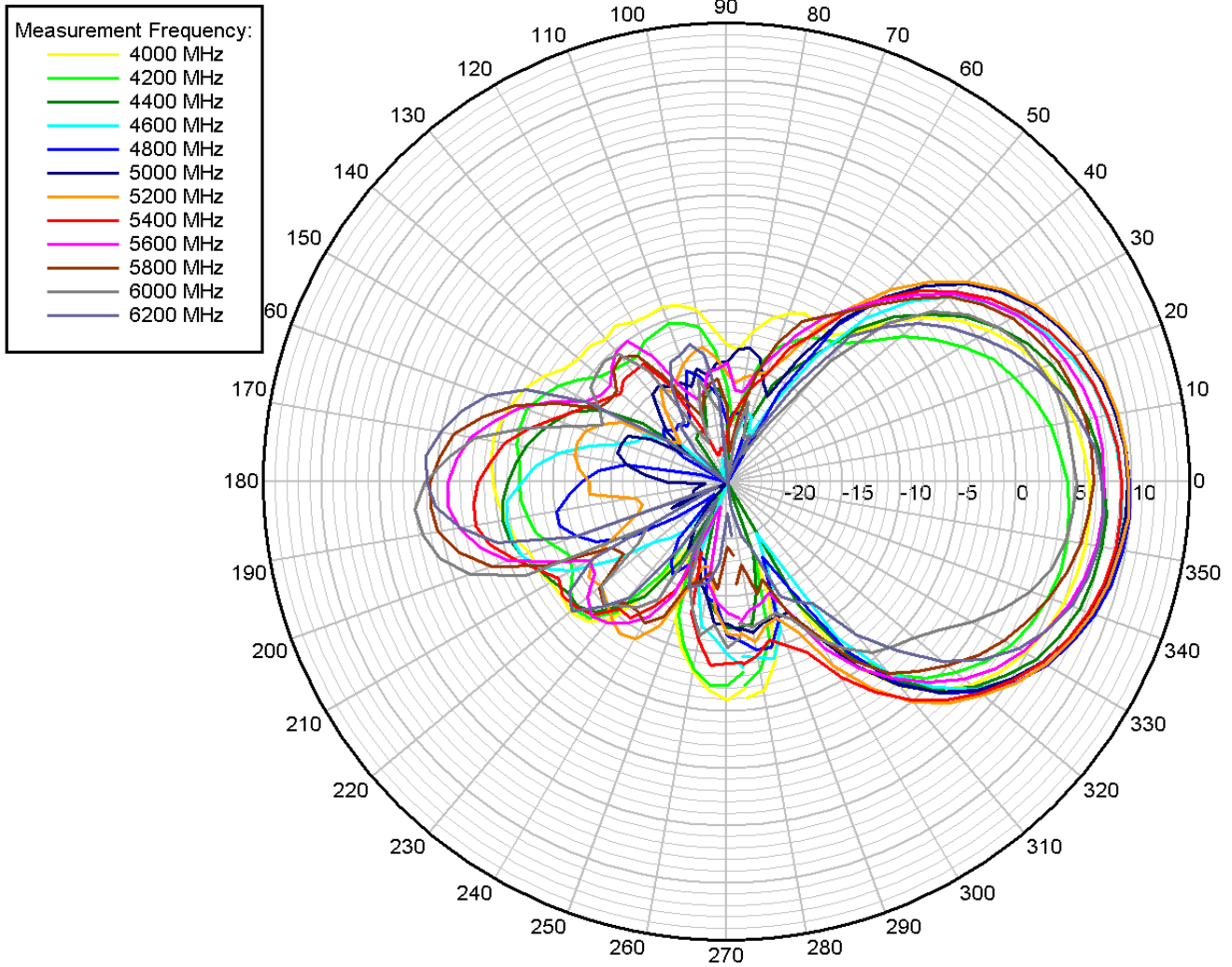
DATASHEET

E-plane Pattern - Antenna SL-520A-501

Radial scale in dBil -- Polarization: Linear -- Boresight @ 0°

Date: 2011/03/29/19:23 hrs

by: antennas.us



antennas.us

a Sales division of Myers Engineering International, Inc
5425 NW 24th Street #201 ▪ Margate, Florida 33063 ▪ 954-345-5005

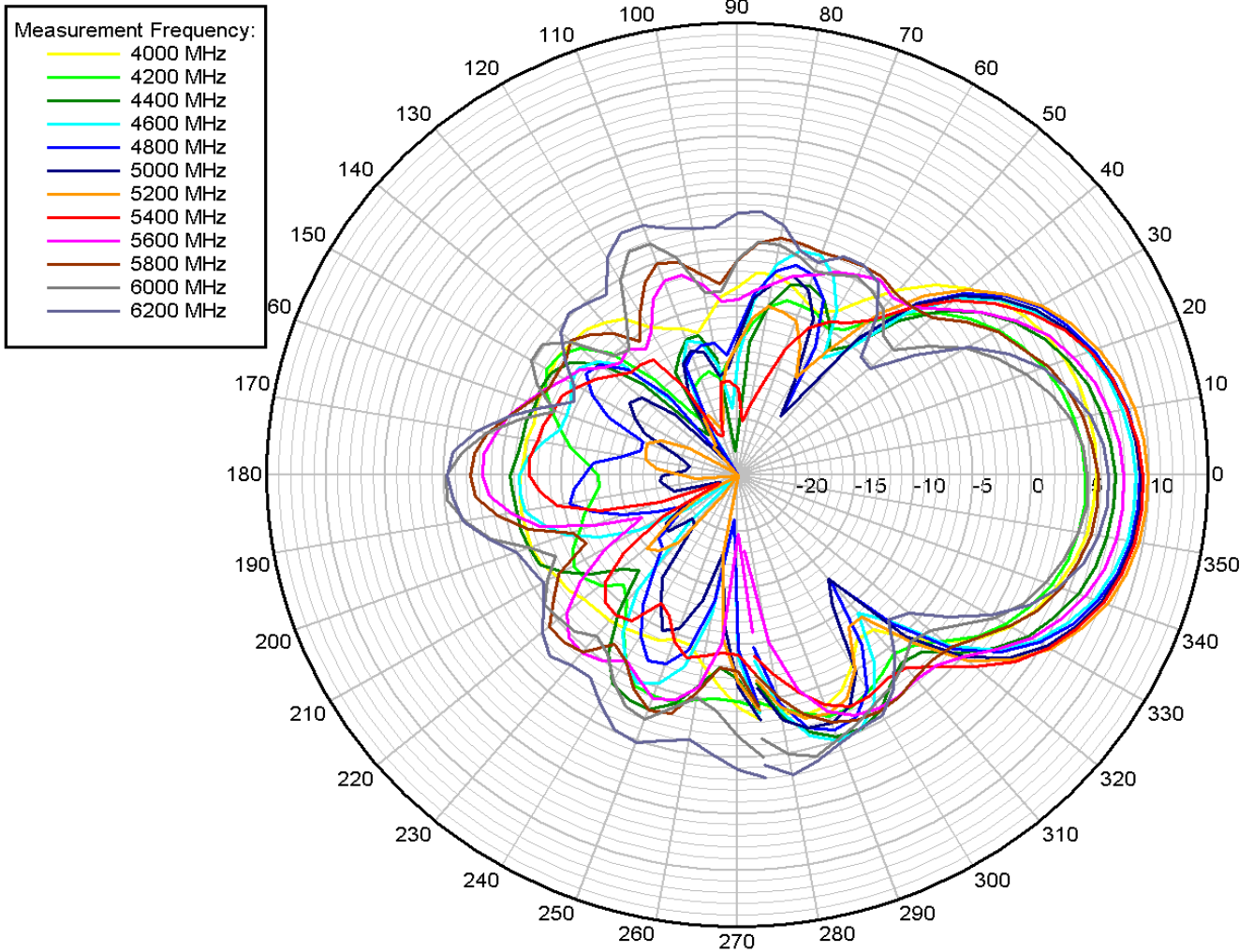
DATASHEET

H-plane Pattern - Antenna SL-520A-501

Radial scale in dBil -- Polarization: Linear -- Boresight @ 0°

Date: 2011/03/29/19:35 hrs

by: antennas.us

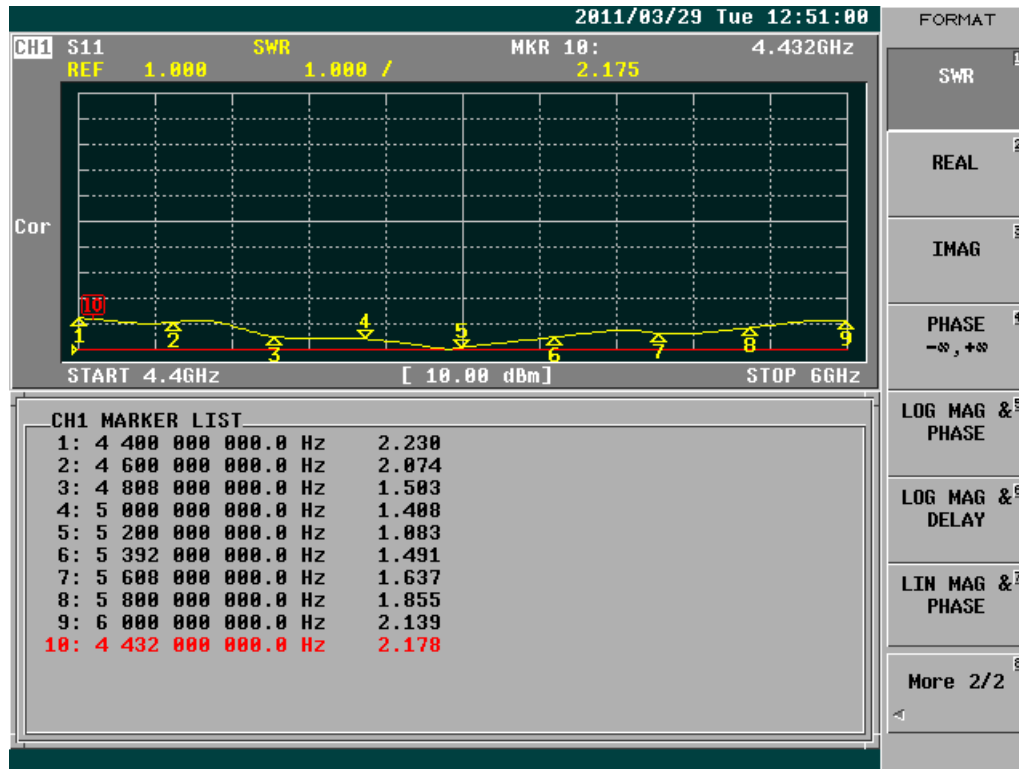


antennas.us

a Sales division of Myers Engineering International, Inc
5425 NW 24th Street #201 ▪ Margate, Florida 33063 ▪ 954-345-5005

DATASHEET

SL-520A-501 VSWR GRAPH



Recommended Cable Assemblies

- [LMR240 - use for cables longer than 3 meters \(10 ft\)](#)
- [LMR195 - use for cables shorter than 3 meters \(10 ft\)](#)

Specify desired length from drop-down menu

Specify desired connector for the device end

Additional Accessory

Mast Mount for SL-520A-501 Antenna, Outside Diameters up to 38 mm (1.5")

antennas.us

a Sales division of Myers Engineering International, Inc
5425 NW 24th Street #201 ▪ Margate, Florida 33063 ▪ 954-345-5005