Product Brief

LCD Series
Dual-Band WiFi Antenna

The Linx LCD series dipole antenna provides a compact, affordable, easy-to-use antenna solution for single- and dual-band WiFi/WLAN as well as other 2.4 GHz or 5 GHz ISM and U-NII frequency band applications.

The hinged, rotating, design of the LCD antenna allows positioning for optimum performance and reduces the potential for damage from impact compared to a fixed whip design.

The LCD antenna is available with an SMA plug (male pin), or RP-SMA plug (female socket) connector for FCC Part 15 compliant applications.

Features

- Performance at 2.4 GHz to 2.485 GHz
  - VSWR: ≤ 1.5
  - Peak Gain: 2.8 dBi
  - Efficiency: 86%
- Performance at 5.15 GHz to 5.85 GHz
  - VSWR: ≤ 1.5
  - Peak Gain: 4.5 dBi
  - Efficiency: 63%
- Hinged design with detents for straight, 45 degree and 90 degree positioning
- SMA plug (male pin) or RP-SMA plug (female socket)

Applications

- Single- and dual-band WiFi/WLAN
  - 802.11b/g
  - WiFi 4 (802.11n)
  - WiFi 5 (802.11ac)
- 2.4 GHz ISM Applications
  - Bluetooth®
  - ZigBee®
- Internet of Things (IoT) devices
- Smart Home networking
- Sensing and remote monitoring
- U-NII and ISM applications

Ordering Information

Part Number	Description
ANT-DB1-LCD-SMA	Antenna with SMA plug (male pin)
ANT-DB1-LCD-RPS	Antenna with RP-SMA plug (female socket)

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-DB1-LCD-ccc	WiFi / ISM	WiFi / U-NII
Frequency Range	2.400 GHz to 2.485 GHz	5.150 GHz to 5.850 GHz
VSWR (max.)	1.5	1.5
Peak Gain (dBi)	2.8	4.5
Average Gain (dBi)	-0.8	-2.5
Efficiency (%)	86	63

Polarization	Linear	Impedance	50 Ω
Radiation	Omnidirectional	Max Power	10 W
Wavelength	1/2-wave	Electrical Type	Dipole
Weight	7.4 g (0.26 oz)	Operating Temp. Range	-40 °C to +80 °C
Dimensions	Height: 83.1 mm (3.27 in) Diameter: 9.4 mm (0.37 in)		
Connection	SMA plug (male pin) or RP-SMA plug (female socket)		

Electrical specifications and plots measured with antenna, mounted on the edge, bent 90 degrees.

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

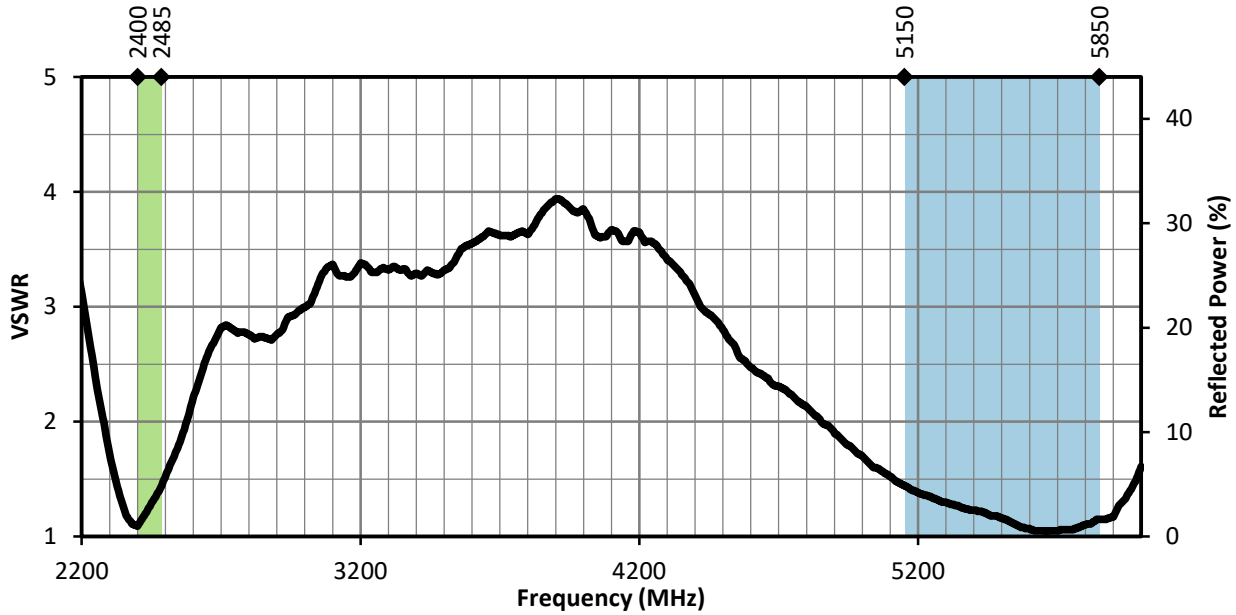

Figure 1. LCD Series VSWR, with Frequency Band Highlights

Mouser Electronics

Authorized Distributor

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Linx Technologies:

ANT-DB1-LCD-SMA ANT-DB1-LCD-RPS