

## Product Brief



## ANT-2.4-LPW-125 2.4 GHz Panel-Mount Dipole Antenna

The ANT-2.4-LPW-125 (LPW) is a panel-mount dipole antenna for Bluetooth®, ZigBee® and other 2.4 GHz ISM applications including WiFi/WLAN.

The snap-in panel mount provides for easy and secure installation and the hinged whip with 3-position detent allows for optimal antenna positioning.

Connection is made to the radio via a 125 mm long, 1.13 mm coax cable terminated in an MHF1/U.FL-compatible plug connector.



### Features

- Performance
  - VSWR:  $\leq 1.5$
  - Peak Gain: 2.8 dBi
  - Efficiency: 83%
- Snap-in panel mount
  - 9.5 mm (0.37 in) diameter hole
- 93.7 mm (3.69 in) long
- Hinged with detents for straight, 45 degree and 90 degree positioning
- MHF1/U.FL-compatible plug (female socket) connector attached to 125 mm of 1.13 mm coax cable
- Omnidirectional radiation pattern

### Applications

- 2.4 GHz applications
  - Bluetooth® and ZigBee®
- Single-band WiFi / WLAN
  - WiFi 4
  - 802.11b/g/n
- Smart Home networking
- Sensing and remote monitoring
- Internet of Things (IoT) devices
- Gateways

### Ordering Information

Part Number	Description
ANT-2.4-LPW-125	Antenna with MHF1/U.FL-compatible connector on 125 mm (4.92 in) 1.13 mm coax cable

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-2.4-LPW-125	2.4 GHz
Frequency Range	2.4 GHz to 2.485 GHz
VSWR (max.)	1.5
Return Loss (max.)	-14.6
Peak Gain (dBi)	2.8
Average Gain (dBi)	-1.0
Efficiency (%)	83
Polarization	Linear
Radiation	Omnidirectional
Max Power	10 W
Wavelength	1/2-wave
Electrical Type	Dipole
Impedance	50 Ω
Connection	MHF1/U.FL-compatible plug, female socket
Coaxial Cable	Type: 1.13 mm / Length: 125 mm (4.92 in)
Weight	6.1 g (0.22 oz)
Height	93.7 mm (3.69 in)
Operating Temperature Range	-20 °C to +85 °C

Electrical specifications and plots measured in Bent-90 configuration.

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.

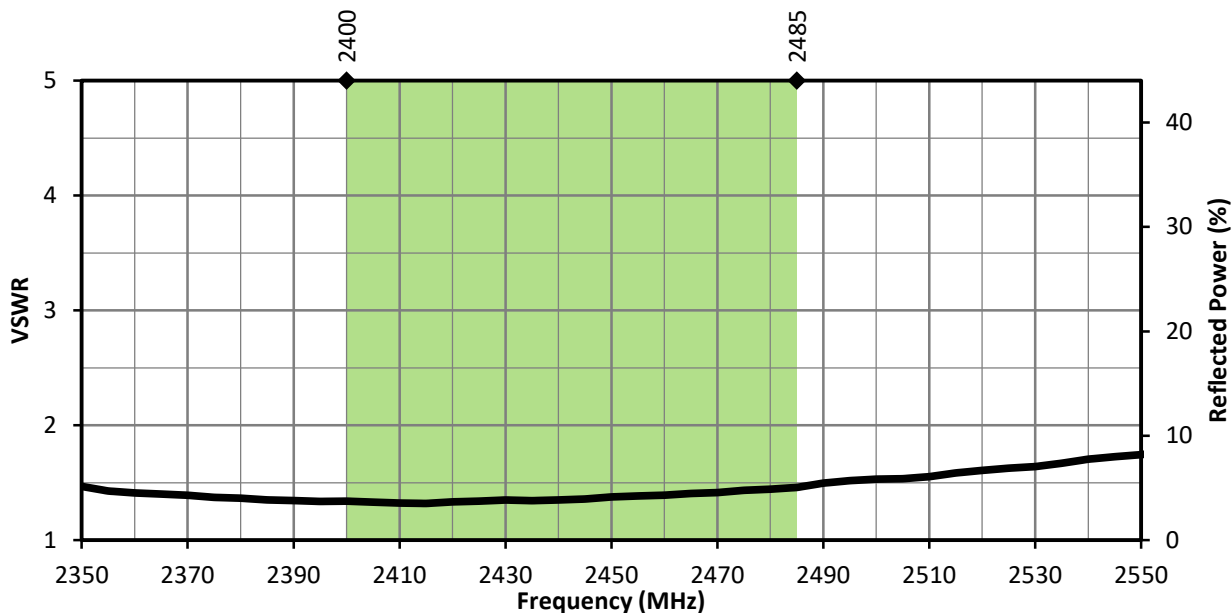


Figure 1. ANT-2.4-LPW-125 VSWR

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