

2.45 GHz Loop Antenna for High Data Rate WLAN Applications



Features

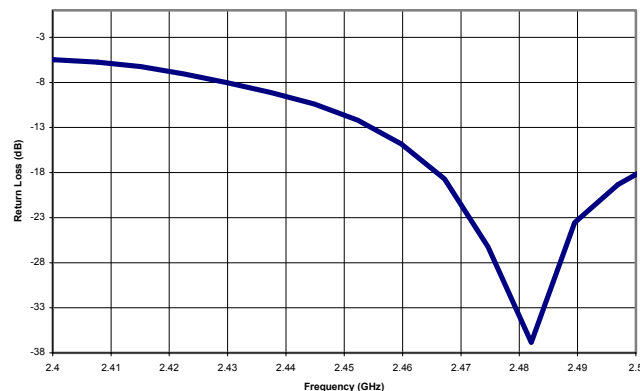
- *Very Efficient MLA Technology*
- *ISM Band*
- *Uni-directional Pattern*
- *Peak Gain + 2.55 dBi*
- *Low Profile for Embedded Applications*

This compact Wireless LAN antenna covers the 2.45 GHz frequency band, encompassing frequency allocations for IEEE 802.11b and Bluetooth standards. Using SkyCross' patented MLA technology, this antenna provides superior efficiency and gain directivity in a small package. This antenna is the best performance solution for developers implementing high data rate WLANs in the 2.45 GHz frequency band.

Electrical Specifications

Frequency Range	2400 — 2500 MHz
Gain	2.55 dBi Peak
VSWR	< 3:1
Polarization	Linear
Elevation Pattern	Uni-directional
Feed Impedance	50 Ohms Unbalanced

Typical Return Loss

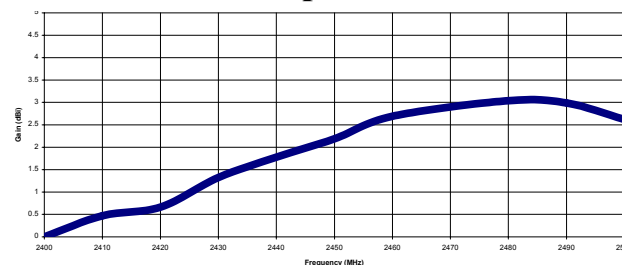


Mechanical Specifications

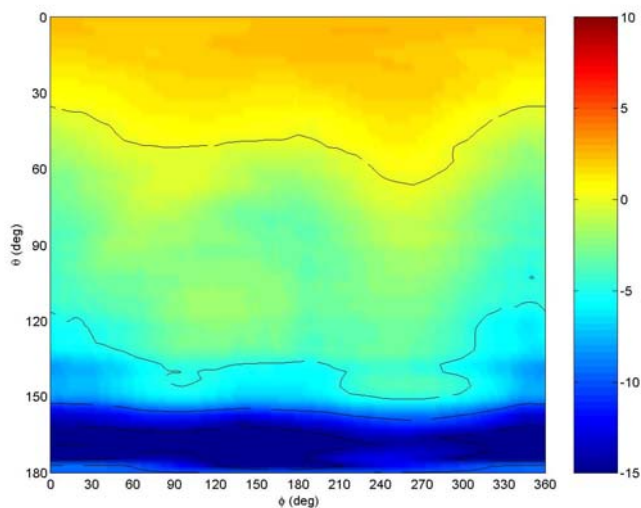
Size	1.8 x 0.8 x 0.14 in 45.7 x 20.3 x 3.56 mm
Weight*	8.9 g

*weight includes connector

Swept Gain

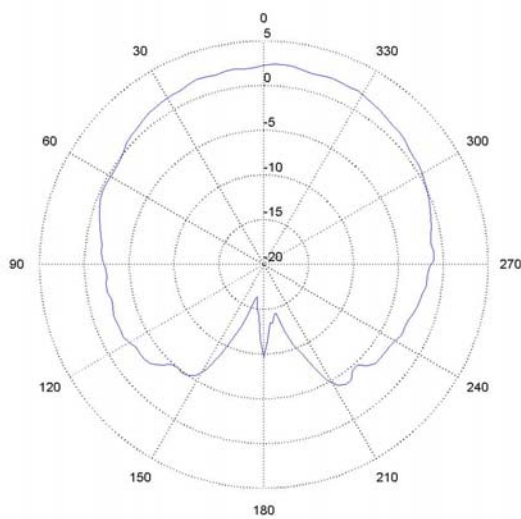


Gain Contour Map



2500 MHz

Typical Gain Pattern at 2500 MHz



$\Phi = 90$ degrees