2.45/5.15 - 5.35 GHz WLAN Dual Frequency Antenna for 802.11b and 802.11a/HiperLAN2 Embedded Wireless Apps.

Features

- *Very Efficient MLA Technology*
- *Covers all Three WLAN Bands:*
  - *802.11b (2.4 GHz)*
  - *802.11a (5.25 GHz)*
- *2 GHz band - Peak Gain +2.7 dBi*
- *5 GHz band - Peak Gain +4.3 dBi*
- *Low Profile for Embedded Applications*
- *80% Efficiency*

This dual band WLAN antenna provides exceptional performance in a compact package for embedded wireless applications implementing dual frequency. This Meander Line Antenna provides superior efficiency and gain directivity and is the best performance solution for developers implementing a dual frequency WLAN system in both the lower and upper WLAN bands.

Electrical Specifications

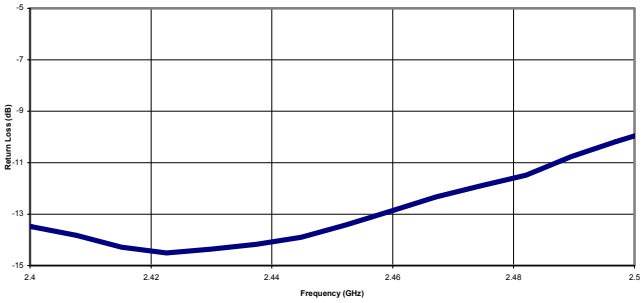
Frequency Ranges	**2400—2500 MHz** **5150—5350 MHz**
Gain	**+2.7 dBi Peak at 2450 MHz** **+3.6 dBi Peak at 5250 MHz**
VSWR	**< 2.0:1 in the lower band** **< 3.0:1 in the upper band**
Polarization	**Linear**
Patterns	**2450 MHz Omni directional**
Feed Impedance	**50 Ohms Unbalanced**

Mechanical Specifications

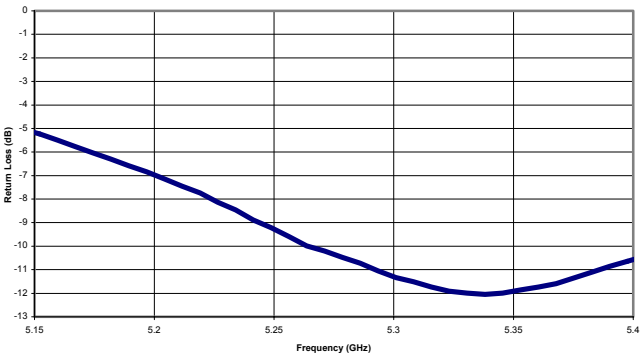
Size*	**0.75 x 0.76 x 0.012 inches** **19.05 x 17 x 0.30 mm**
Weight**	**0.3 g**

*antenna suspended 5 mm above ground plane with mounting pins
**weight with out connector or ground plane

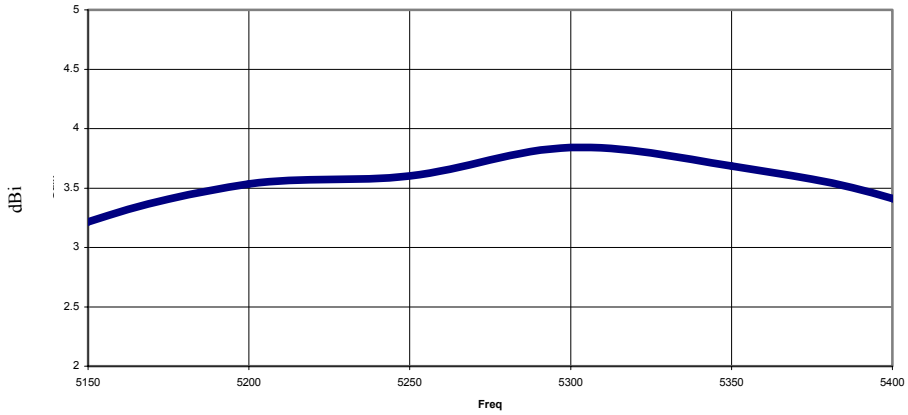
Typical Return Loss



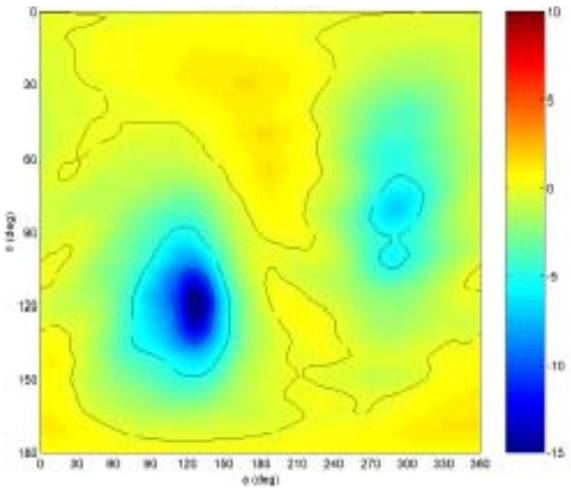
Typical Return Loss



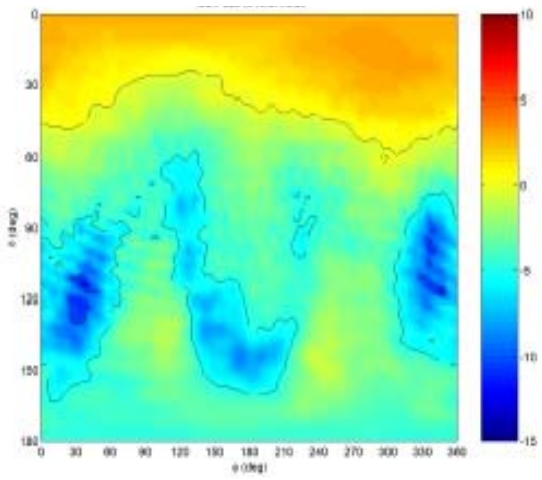
Swept Gain



Spherical Gain Contour Maps

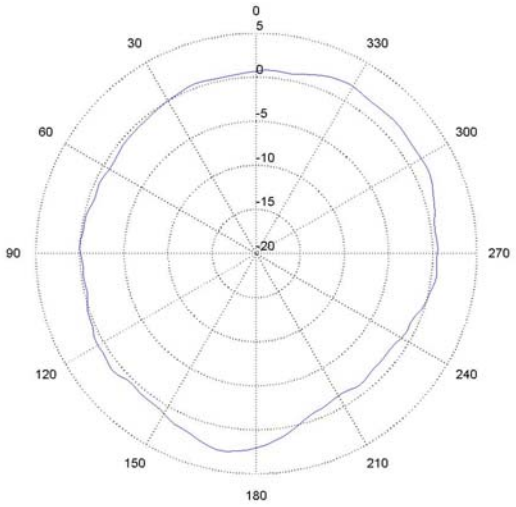


2.45 GHz

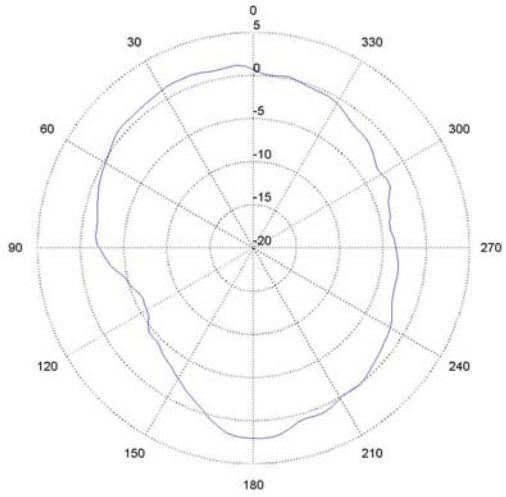


5.25 GHz

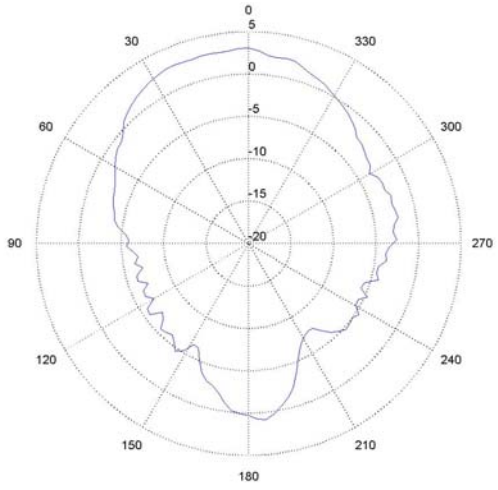
Typical Gain Pattern



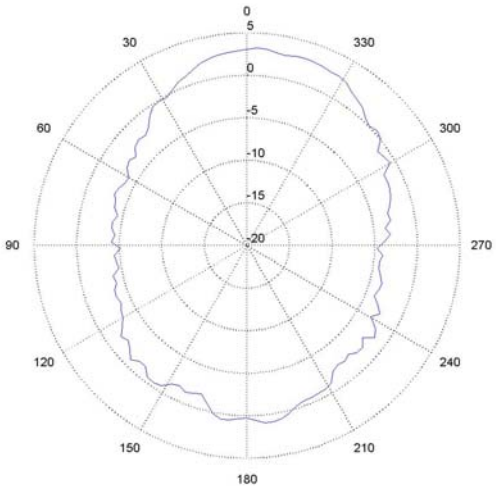
Gain at 2.45 GHz
Phi = 0 degrees



Gain at 2.45 GHz
Phi = 90 degrees



Gain at 5.25 GHz
Phi = 0 degrees



Gain at 5.25 GHz
Phi = 90 degrees