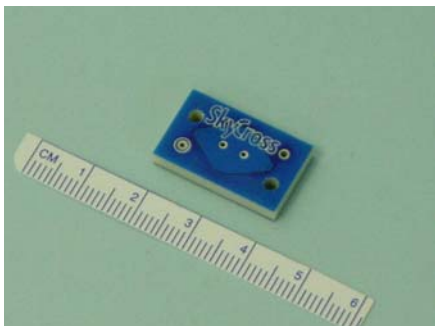


## 5.1—5.9 GHz Connectorized WLAN Loop Antenna for 802.11a, HiperLAN2, CSMA and HiSWANa Wireless Applications



### Features

- *Very Efficient MLA Technology*
- *Upper and lower U-NII Band*
- *Hemispherical Pattern*
- *Peak Gain +2.2 dBi*
- *Low Profile for Embedded Applications*

This compact Wireless LAN antenna covers the entire 5.1 - 5.9 GHz frequency band, encompassing all worldwide frequency allocations for high data rate WLANs, including IEEE 802.11a, ETSI HiperLAN2, and MMAC CSMA and HiSWANa 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 any or all of the upper frequency bands.

### Electrical Specifications

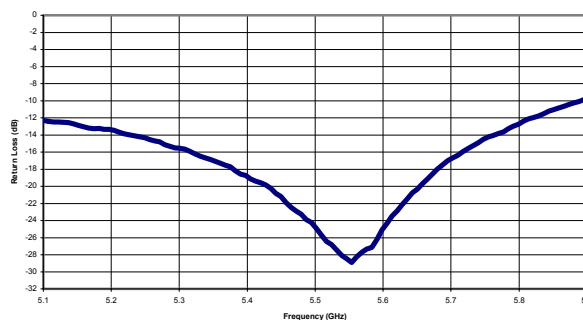
Frequency Range	5100 — 5900 MHz
Gain	1.5 dBi minimum over entire bandwidth
VSWR	< 2.3:1 maximum over entire bandwidth
Polarization	Linear
Elevation Pattern	Uni-directional
Feed Impedance	50 Ohms Unbalanced

### Mechanical Specifications

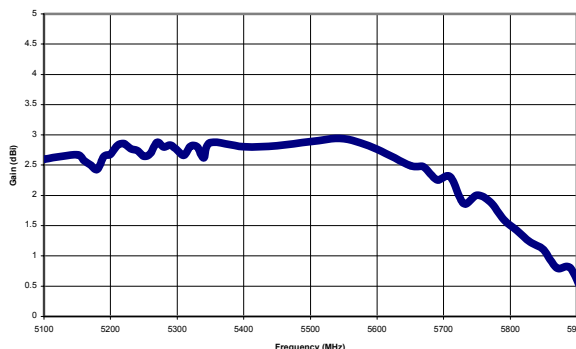
Size	0.88 x 0.53 x 0.155 inches 22.4 x 13.5 x 3.9 mm
Weight	2.4 g*

\*weight does not include ground plane or connector

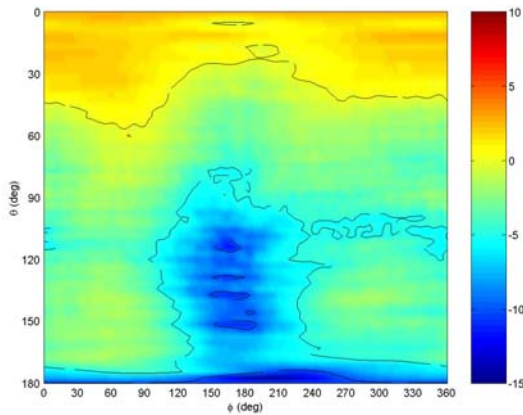
### Typical Return Loss



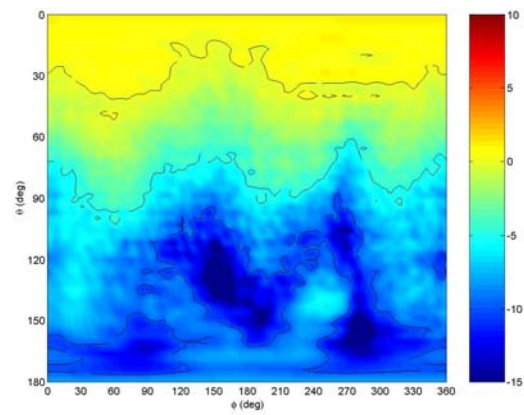
### Swept Peak Gain



## Spherical Gain Contour Map

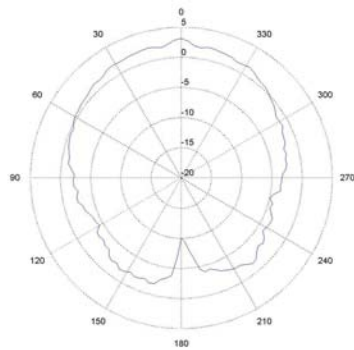


5250 MHz

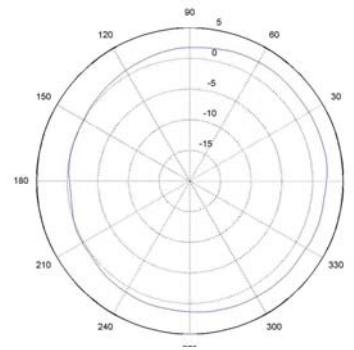


5800 MHz

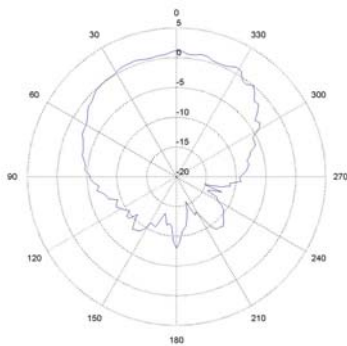
## Typical Gain Pattern



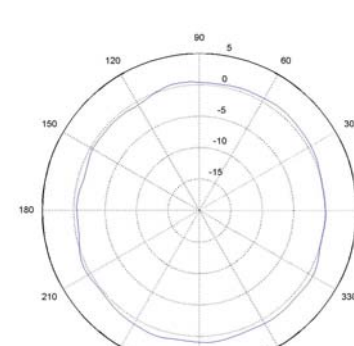
Gain at 5250 MHz  
Phi = 90 degrees



Gain at 5250 MHz  
Theta = 30 degrees  
(60 degrees above horizon)



Gain at 5800 MHz  
Phi = 90 degrees



Gain at 5800 MHz  
Theta = 30 degrees  
(60 degrees above horizon)