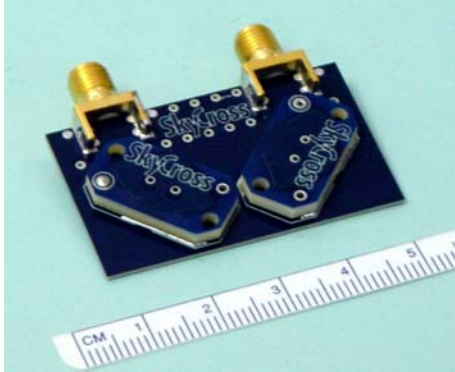


5.25 GHz Surface-mountable Loop Assembly for High Data Rate WLAN Applications



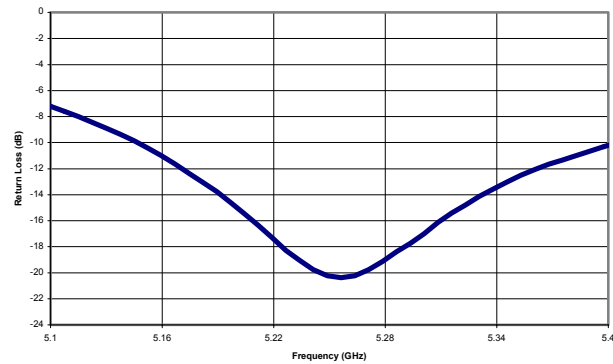
Features

- *Very Efficient MLA Technology*
- *U-NII/HyperLAN2 Band*
- *Uni-directional Pattern*
- *Peak Gain +1.5 Minimum Across Band*
- *Low Profile for Embedded Applications*

This compact Wireless LAN antenna covers the 5.25 GHz frequency band, encompassing frequency allocations for IEEE 802.11a and ETSI HiperLAN2 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 5.25 GHz frequency band.

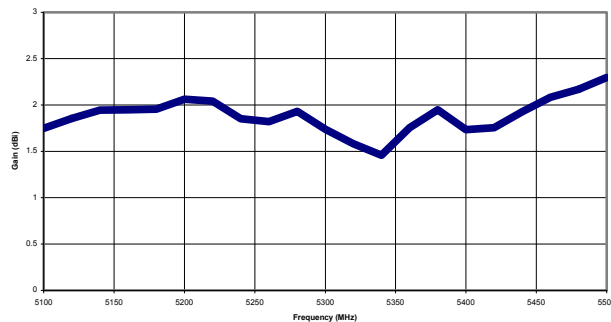
Electrical Specifications	
Frequency Range	5150 — 5350 MHz
Gain	1.5 dBi min. across band
VSWR	< 2:1
Polarization	Linear
Elevation Pattern	Uni-directional
Feed Impedance	50 Ohms Unbalanced

Typical Return Loss

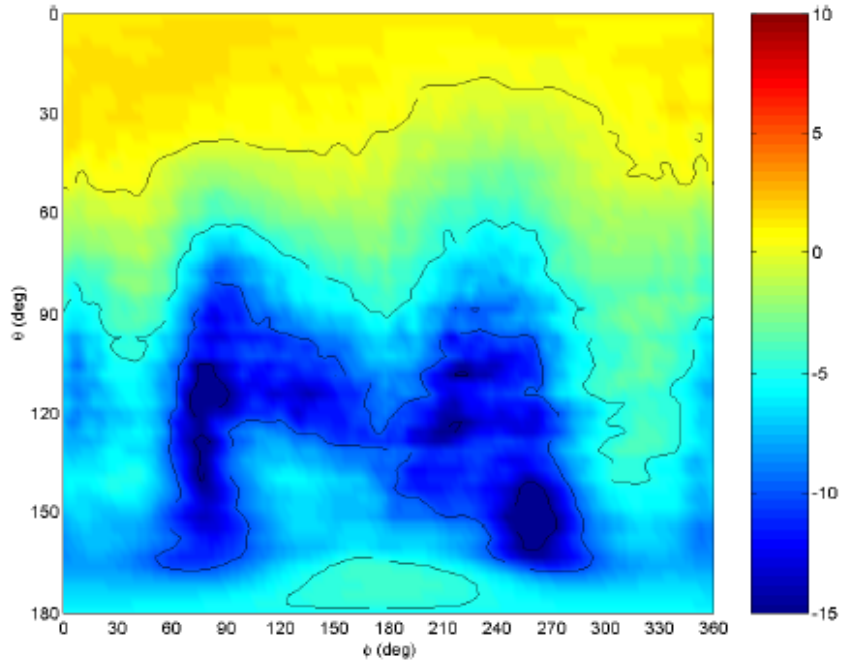


Mechanical Specifications	
Size	0.88 x 0.53 x 0.155 inches 22.4 x 13.5 x 3.9 mm
Weight	2.4 g*
*weight does not include ground plane or connector	

Swept Gain

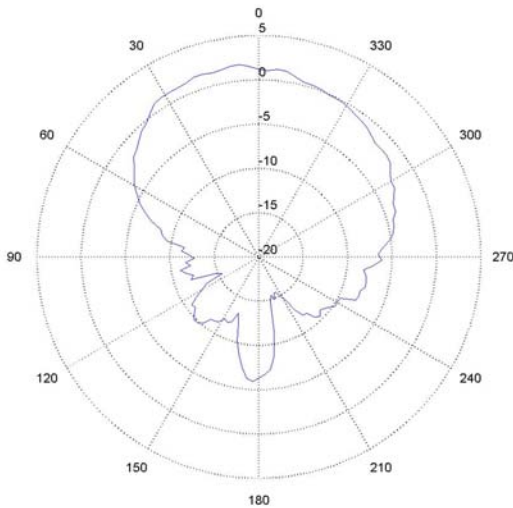


Spherical Contour Gain Map

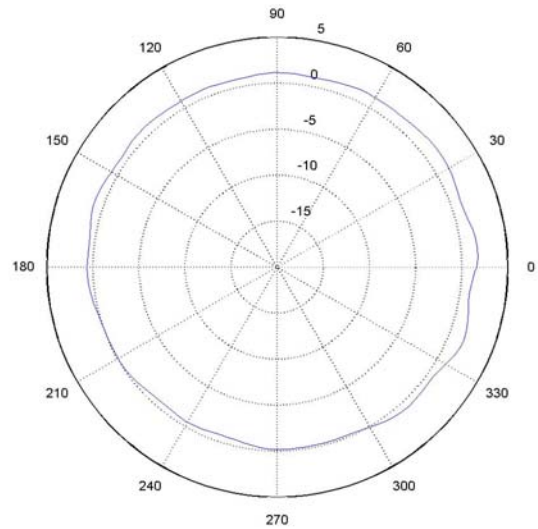


5250 MHz

Typical Gain Pattern

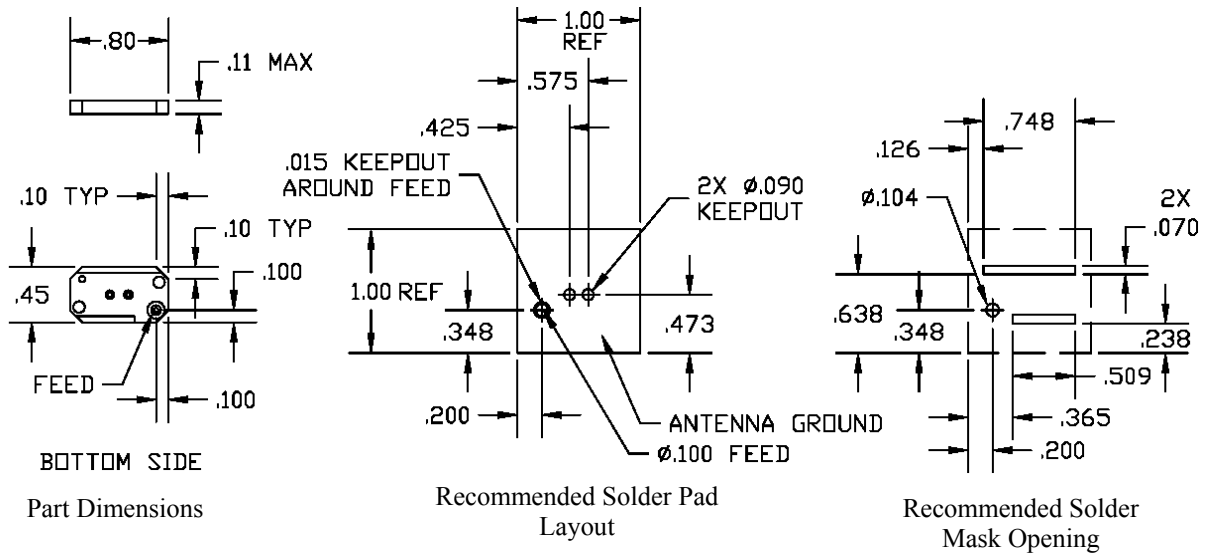


Gain at 5250 MHz
 Phi = 90 degrees



Gain at 5250 MHz
 Theta = 30 degrees

SMT-5250-LCU Footprint Details



2 Place Dim	3 Place Dim	Angular
XX $\pm.01$	XXX $\pm.005$	$\pm.05$