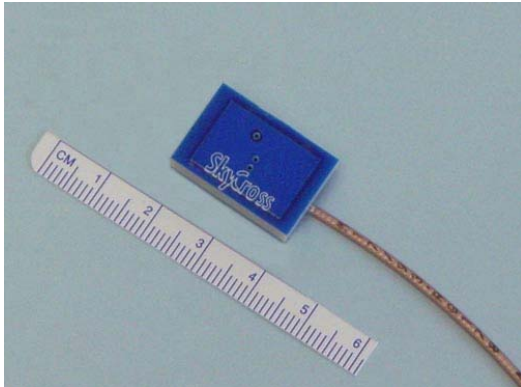


WLAN Tri Band Antenna for 802.11b and 802.11a/HiperLAN2 Embedded Wireless Applications



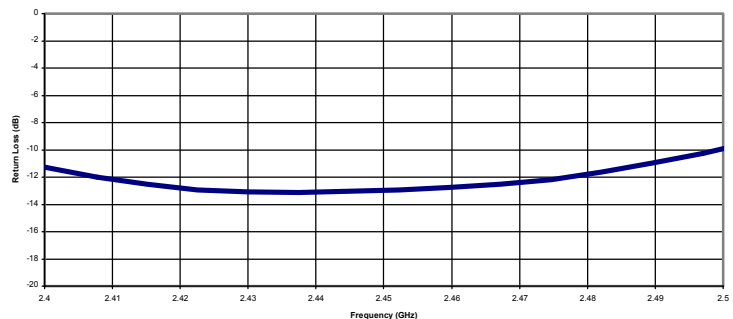
Features

- *Very Efficient MLA Technology*
- *Covers all Three WLAN Bands:*
 - 802.11b (2.44 GHz)
 - 802.11a (5.25 GHz)
 - HiperLAN2 (5.8 GHz)
- *Very Low Profile for Embedded Applications*
- *Optimized for Remote Cable Mounting in Desktop/Laptop Applications*

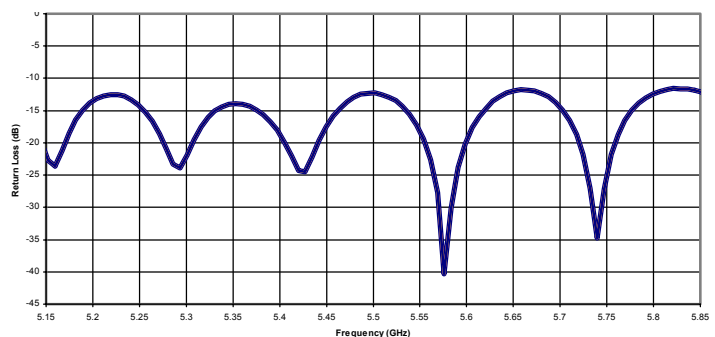
This tri band WLAN antenna provides exceptional performance in a compact package for embedded wireless applications implementing multiple frequencies. This Meander Line Antenna provides superior efficiency and gain directivity and is the best performance solution for developers implementing a multiple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

Electrical Specifications †	
Frequency Ranges	2400—2500 MHz 5150—5850 MHz
Gain	3.0 dBi Peak at 2440 MHz 3.25 dBi Peak at 5250 MHz 2.0 dBi Peak at 5800 MHz
VSWR	< 1.8:1 in the lower band < 2.0:1 in the upper band
Polarization	Linear
Patterns	2440 MHz Uni directional 5250 MHz Uni directional 5800 MHz Uni directional
Feed Impedance	50 Ohms Unbalanced
Mechanical Specifications	
Size	0.87 x 0.59 x 0.24 inches 22.3 x 14.9 x 6.2 mm
Weight*	3.9 g
Cable/Connectors	Customer to specify cable type, cable length and connector type
*weight with out cable	

Typical Return Loss (Low Band)

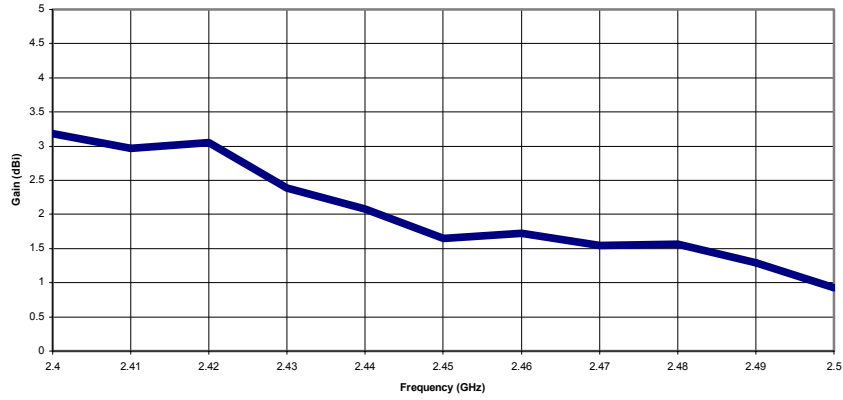


Typical Return Loss (High Bands)

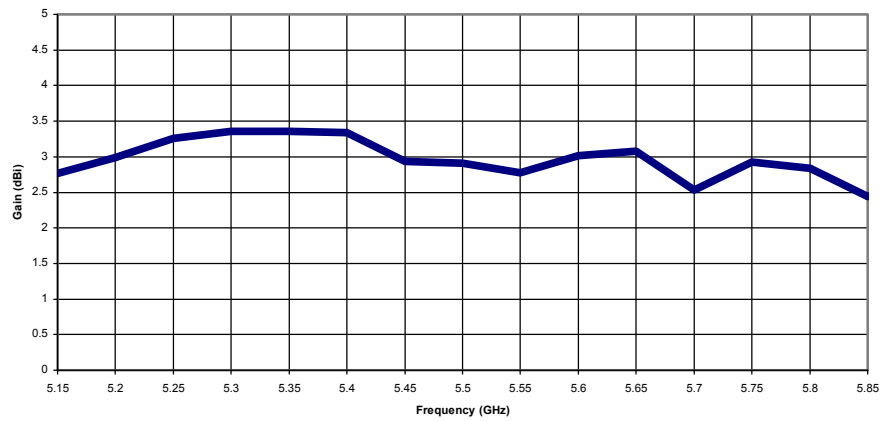


† Electrical performance as measured when mounted onto a 48 x 19 cm desktop chassis with a MMCX connector on a 60 cm RG178 test cable.

Swept Gain for Low Band †

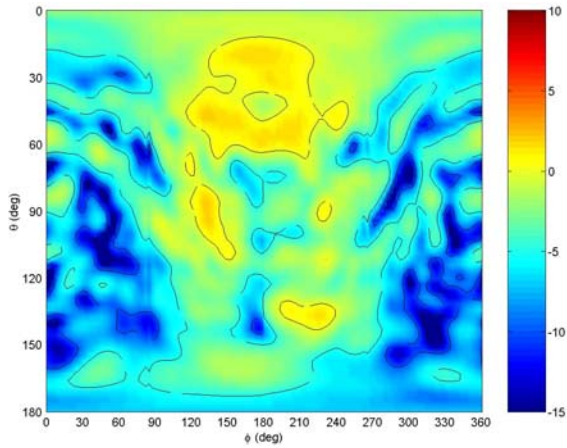


Swept Gain for High Band †

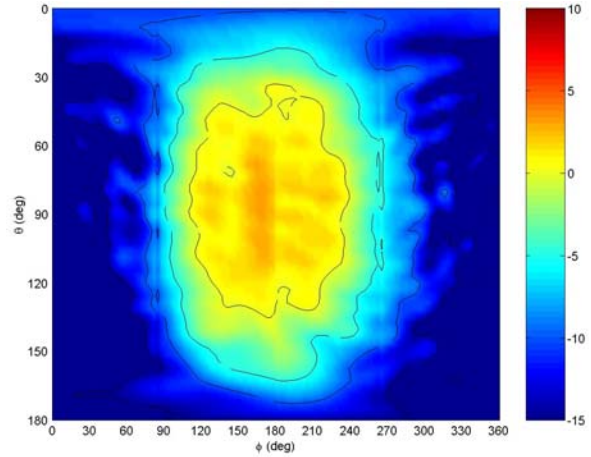


† Electrical performance as measured when mounted onto a 48 x19 cm desktop chassis with a MMCX connector on a 60 cm RG178 test cable. 2

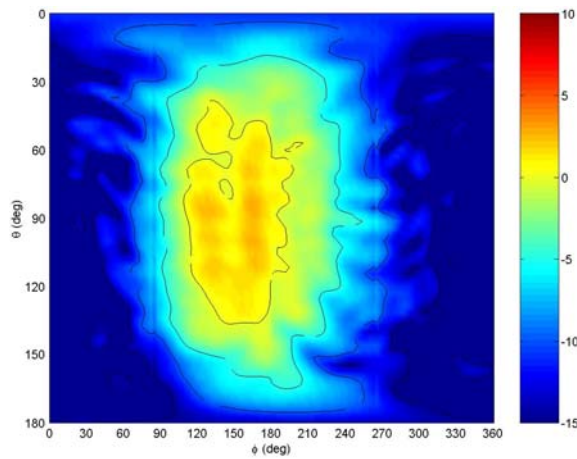
Spherical Gain Contour Maps †



2.44 GHz



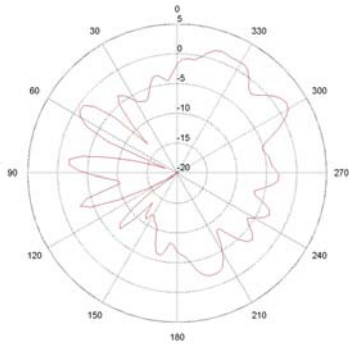
5.25 GHz



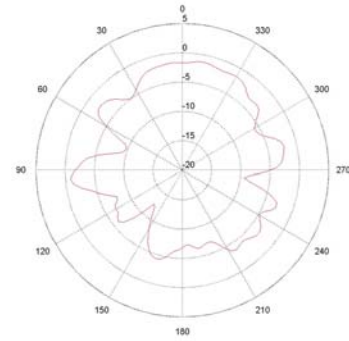
5.8 GHz

† Electrical performance as measured when mounted onto a 48 x19 cm desktop chassis with a MMCX connector on a 60 cm RG178 test cable. 3

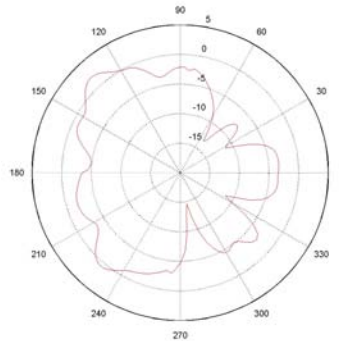
Gain Pattern at 2.45



Phi = 0 degrees

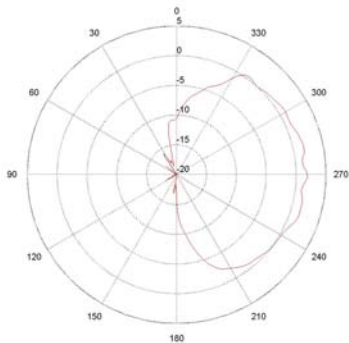


Phi = 90 degrees

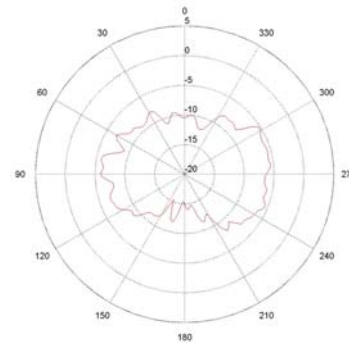


Theta = 90 degrees

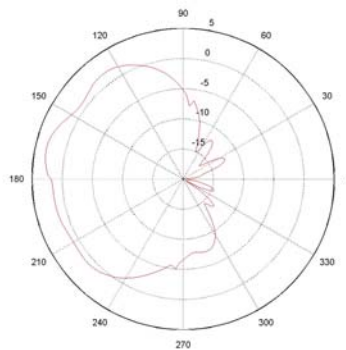
Gain Pattern at 5.25



Phi = 0 degrees

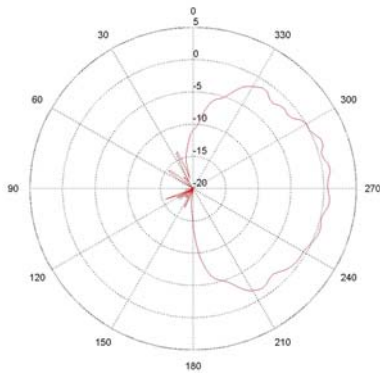


Phi = 90 degrees

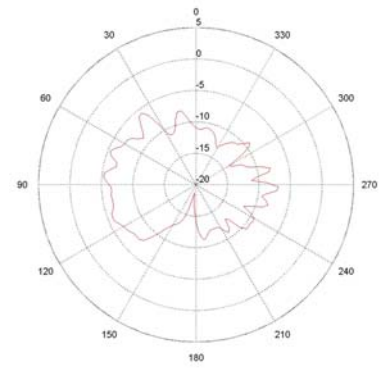


Theta = 90 degrees

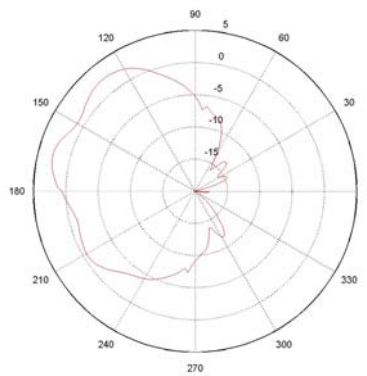
Gain Pattern at 5.8



Phi = 0 degrees



Phi = 90 degrees

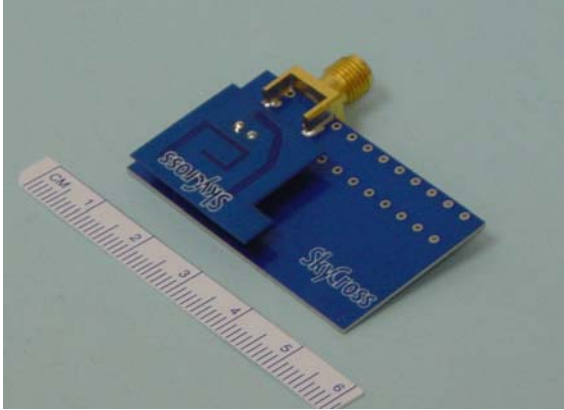


Theta = 90 degrees

© 2002 SkyCross, Inc. SkyCross is a trademark of SkyCross, Inc. All rights reserved. Protected by one or more US Patents, including No. 5,790,080. Additional US and Foreign patents pending. Specification subject to change without notice.

For information regarding SkyCross Inc. and its products, see website at www.skycross.com, email info@skycross.com or call 321-308-6600

WLAN Tri Band Antenna for 802.11b and 802.11a/HiperLAN2 Embedded Wireless Applications



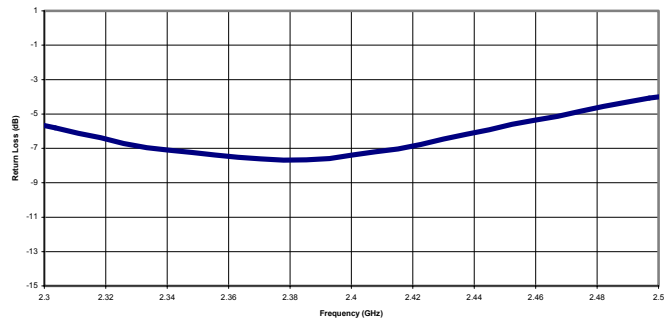
Features

- *Very Efficient MLA Technology*
- *Covers all Three WLAN Bands:*
 - 802.11b (2.4 GHz)
 - 802.11a (5.25 GHz)
 - HiperLAN2 (5.6 GHz)
- *Very Low Profile for Embedded Applications*
 - *Only 3 mm High*
- *60% Efficiency*

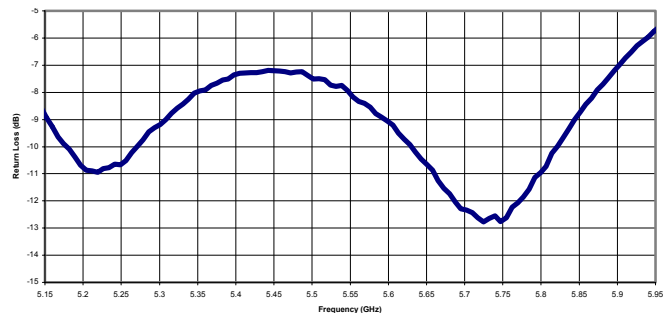
This tri band WLAN antenna provides exceptional performance in a compact package for embedded wireless applications implementing dual frequency. This Meander Line Antenna provides superior efficiency and gain directivity and is the best performance solution for developers implementing a dual frequency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

Electrical Specifications	
Frequency Ranges	2400—2500 MHz 5150—5850 MHz
Gain	+1.3 dBi Peak at 2440 MHz +2.45 dBi Peak at 5300 MHz +5.0 dBi Peak at 5700 MHz
VSWR	< 3.0:1 in the lower band < 3.0:1 in the upper band
Polarization	Linear
Patterns	2440 MHz Omni directional 5300 MHz Uni directional 5700 MHz Uni directional
Feed Impedance	50 Ohms Unbalanced
Mechanical Specifications	
Size*	0.90 x 0.93 x 0.012 inches 22.9 x 23.6 x 0.30 mm
Weight**	0.3 g
*antenna suspended 3 mm above ground plane with mounting pins	
**weight with out connector or ground plane	

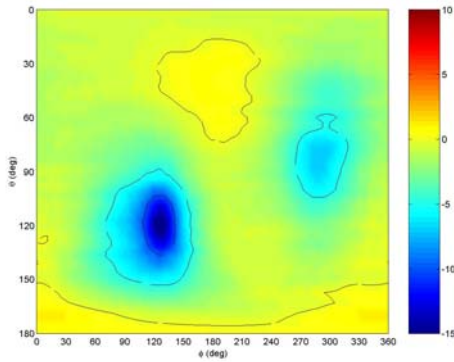
Typical Return Loss (Low Band)



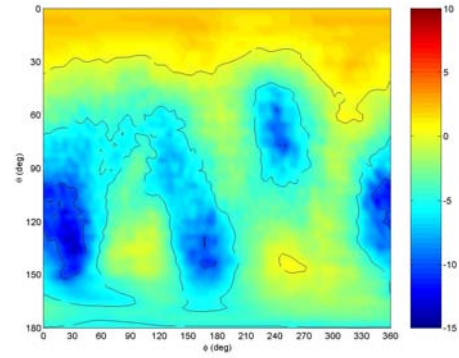
Typical Return Loss (High Bands)



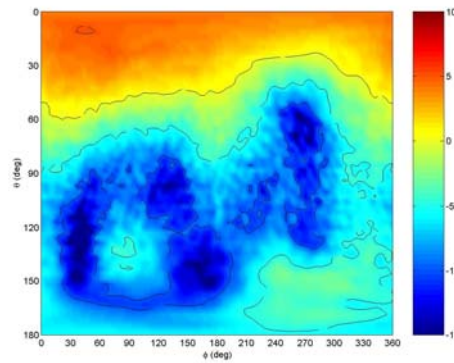
Spherical Gain Contour Maps



2.44 GHz

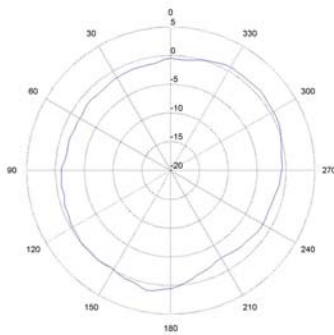


5.3 GHz

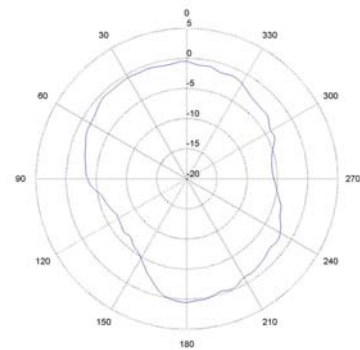


5.7 GHz

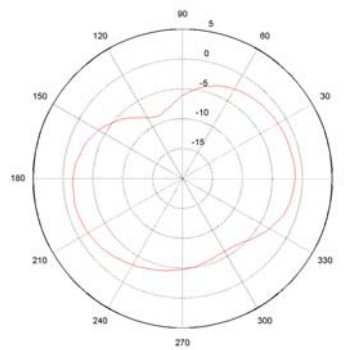
Gain Pattern at 2.44



**Gain at 2.44 GHz
Phi = 0 degrees**

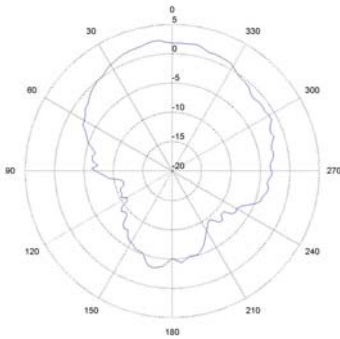


**Gain at 2.44 GHz
Phi = 90 degrees**

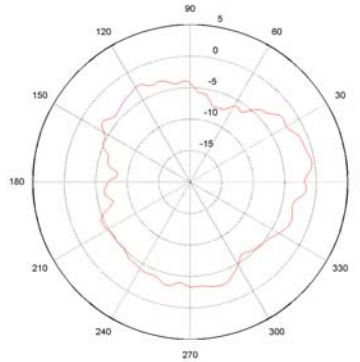


**Gain at 2.44 GHz
Theta = 90 degrees**

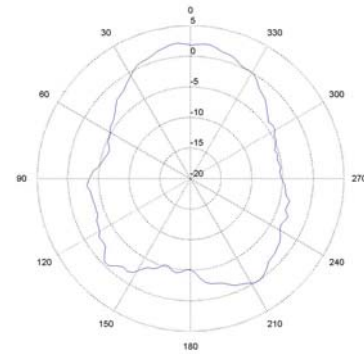
Gain Pattern at 5.3 GHz



**Gain at 5.3 GHz
 Phi = 0 degrees**

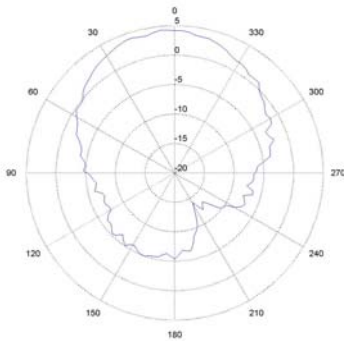


**Gain at 5.3 GHz
 Theta= 90 degrees**

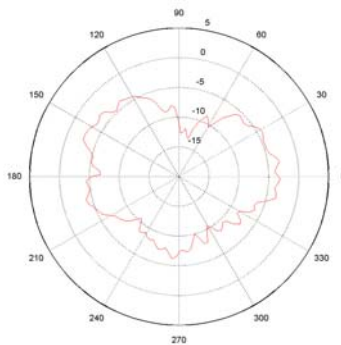


**Gain at 5.3 GHz
 Phi = 90 degrees**

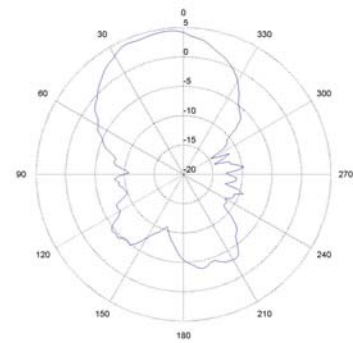
Gain Pattern at 5.7 GHz



**Gain at 5.7 GHz
 Phi = 0 degrees**



**Gain at 5.7 GHz
 Theta= 90 degrees**



**Gain at 5.7 GHz
 Phi = 90 degrees**

© 2002 SkyCross, Inc. SkyCross is a trademark of SkyCross, Inc. All rights reserved. Protected by one or more US Patents, including No. 5,790,080. Additional US and Foreign patents pending. Specification subject to change without notice.

For information regarding SkyCross Inc. and its products, see website at www.skycross.com, email info@skycross.com or call 321-308-6600