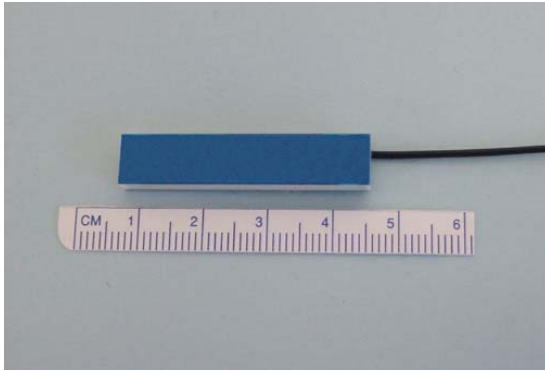


WLAN Quad Band Antenna for Worldwide 802.11a/b Embedded Wireless Applications



Features

- *Covers all Worldwide WLAN Bands:*
 - 802.11b—2.45 GHz
 - 802.11a
 - ◆ *Japan—5.0 GHz*
 - ◆ *North America—5.25 GHz*
 - ◆ *Europe—5.6 GHz*
- *Very Low Profile for Embedded Applications*
- *Optimized for Remote Cable Mounting in Desktop/Laptop Applications*

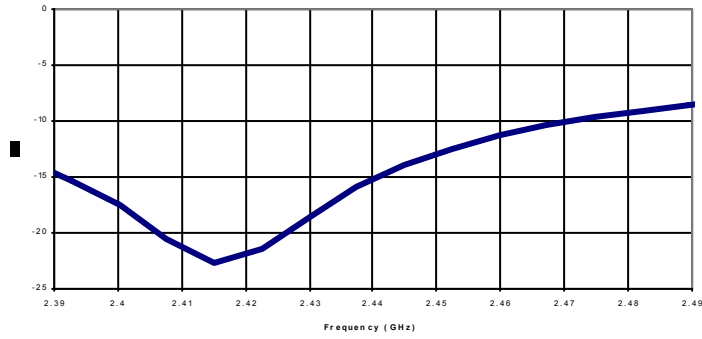
This quad band WLAN antenna provides exceptional performance for embedded wireless applications implementing multiple frequencies. This Meander Line Antenna provides superior efficiency and gain directivity and is the best performance solution for developers implementing a multiple frequency system in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

Electrical Specifications	
Frequency Ranges	2390—2490 MHz 4900—5900 MHz
Efficiency	60% across low band 50% across high bands
VSWR	< 2.0:1 in the lower band < 2.0:1 in the upper bands
Polarization	Linear
Patterns	Uni directional
Feed Impedance	50 Ohms Unbalanced

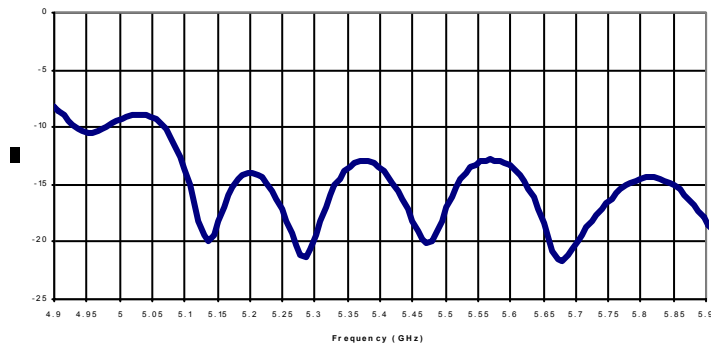
Mechanical Specifications	
Size	0.31 x 1.5 x 0.16 inches 7.9 x 38.0 x 4.2 mm
Cable/Connectors	Customer to specify cable type, cable length and connector type

Mechanical Specifications	
Temperature Tolerance	Less than a 1 dB degradation and center frequency shift of less than 10 MHz when operated at any temperature in the range 0 to +65° C
Humidity	Less than a 1 dB degradation and center frequency shift of less than 10 MHz when operated in relative humidity of 10—95% non-condensing and a temperature of 120 degrees F
Chemical Resistance	Resists damage from wetting by water, brine, commonly used cleaning agents and non-toxic household substances
Mechanical Durability	Maintains integrity for impacts of 4 feet or less

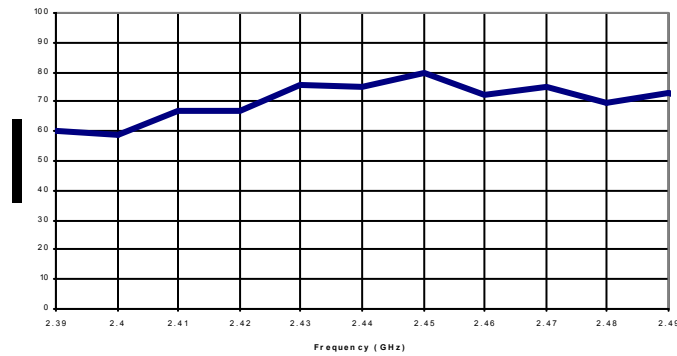
Typical Return Loss (Low Band)



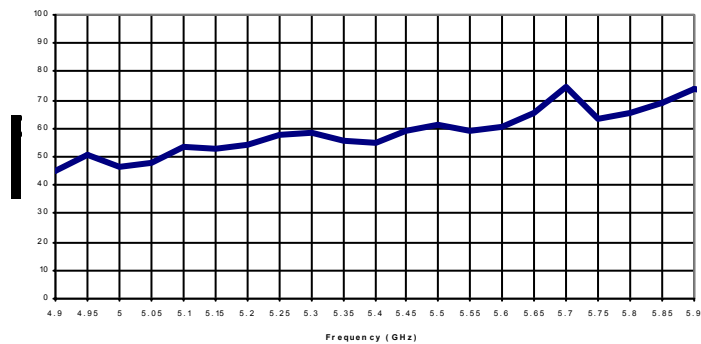
Typical Return Loss (High Bands)



Swept Efficiency (Low Band)

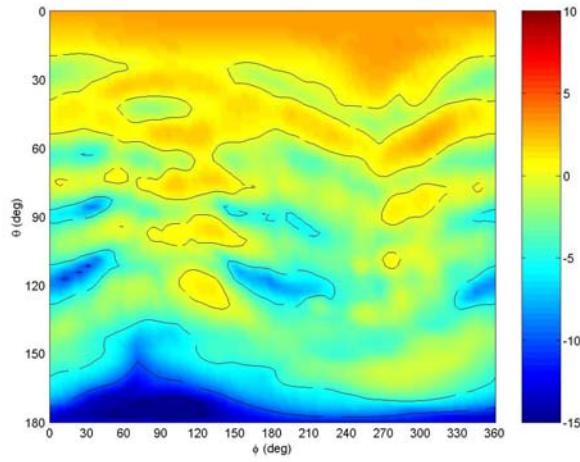


Swept Efficiency (High Bands)

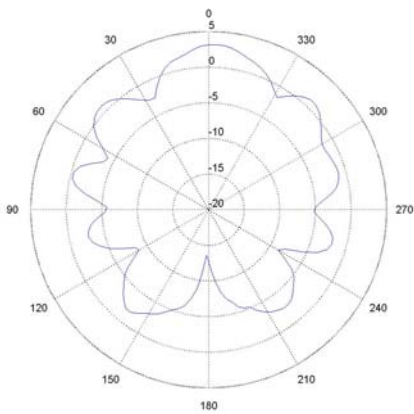


Data shown for single element only as installed in laptop screen

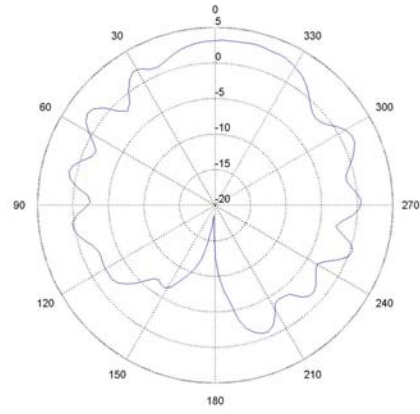
Diversity Spherical Gain Contour Map at 2.39 GHz



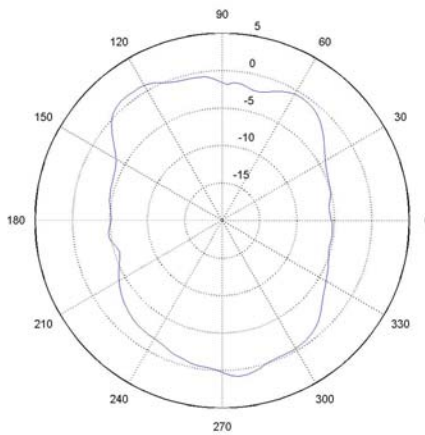
Diversity Gain Patterns at 2.39



Phi = 0 degrees



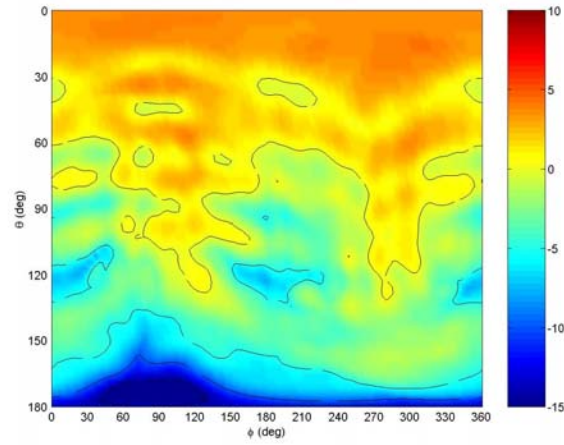
Phi = 90 degrees



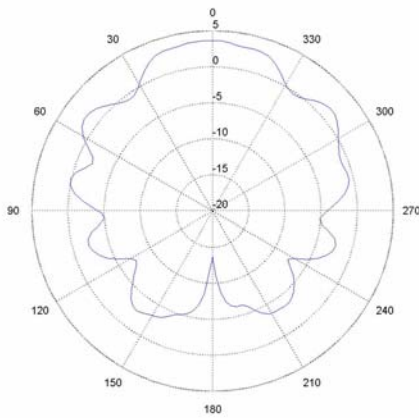
Theta= 90 degrees

Diversity data shown consists of combination of a left and right mounted antenna in a laptop screen with cable and connector loss removed

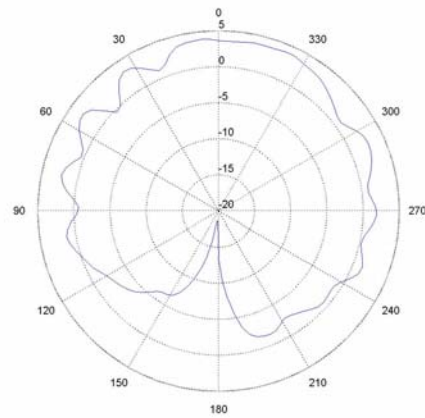
Diversity Spherical Gain Contour Map at 2.45 GHz



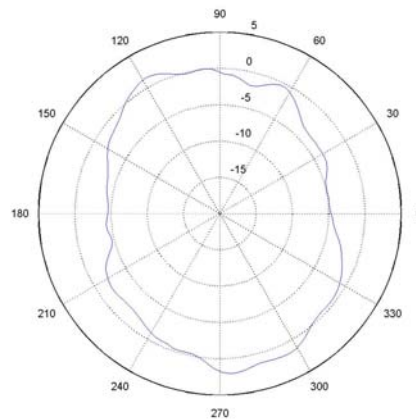
Diversity Gain Patterns at 2.45



Phi = 0 degrees



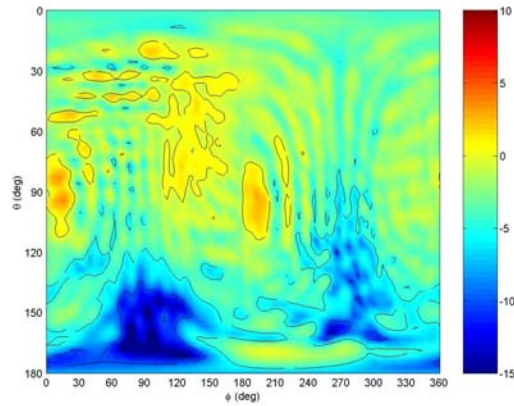
Phi = 90 degrees



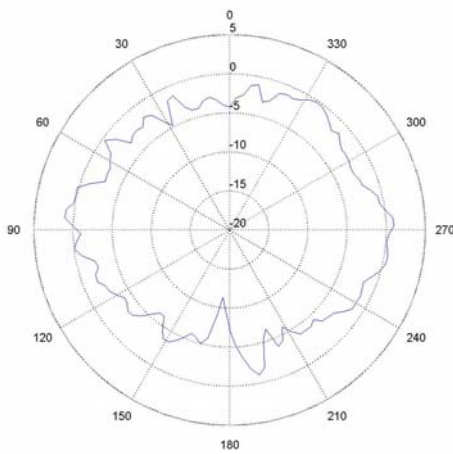
Theta= 90 degrees

Diversity data shown consists of combination of a left and right mounted antenna in a laptop screen with cable and connector loss removed.

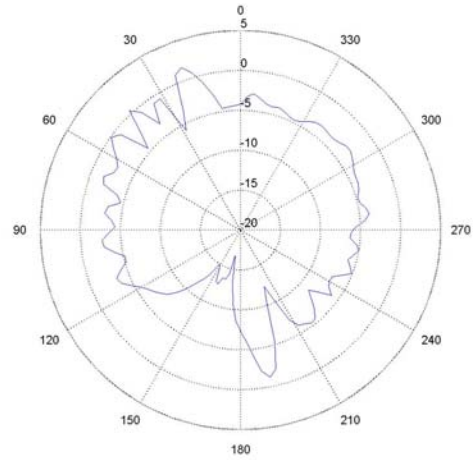
Diversity Spherical Gain Contour Map at 5.0 GHz



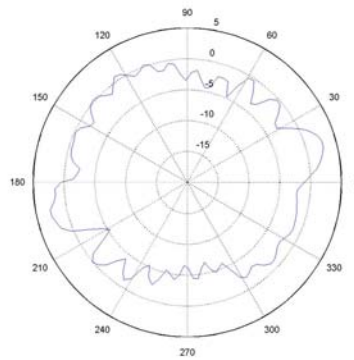
Diversity Gain Patterns at 5.0



Phi = 0 degrees



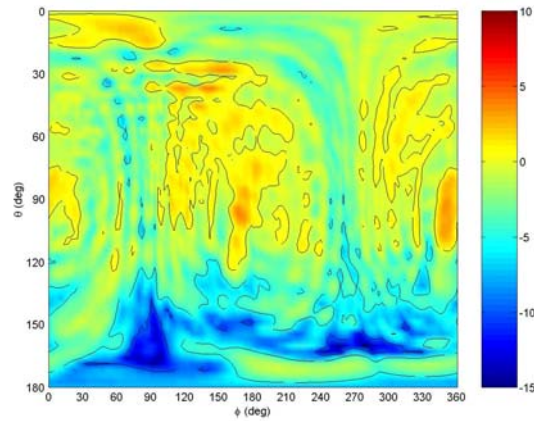
Phi = 90 degrees



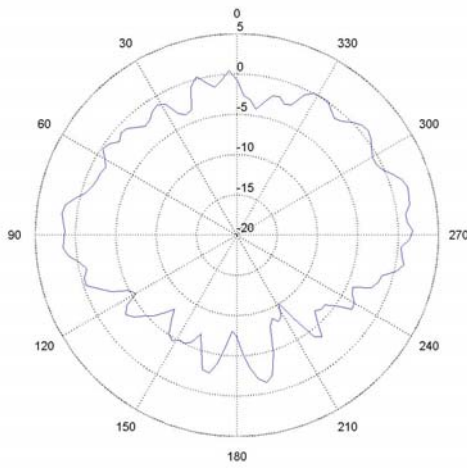
Theta= 90 degrees

Diversity data shown consists of combination of a left and right mounted antenna in a laptop screen with cable and connector loss removed.

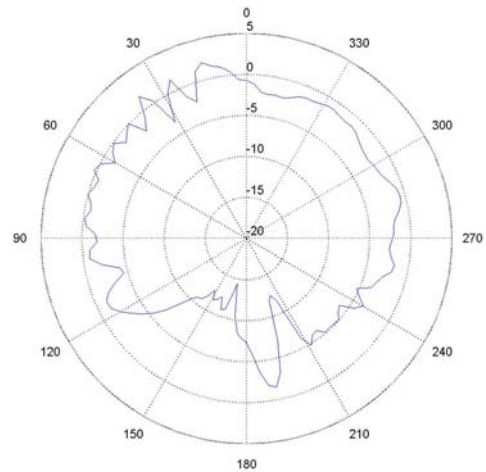
Diversity Spherical Gain Contour Map at 5.25 GHz



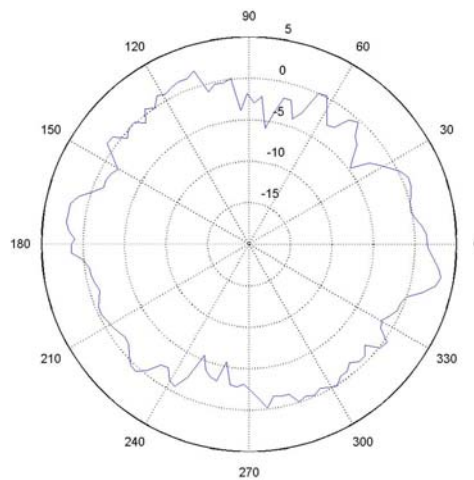
Diversity Gain Patterns at 5.25



Phi = 0 degrees



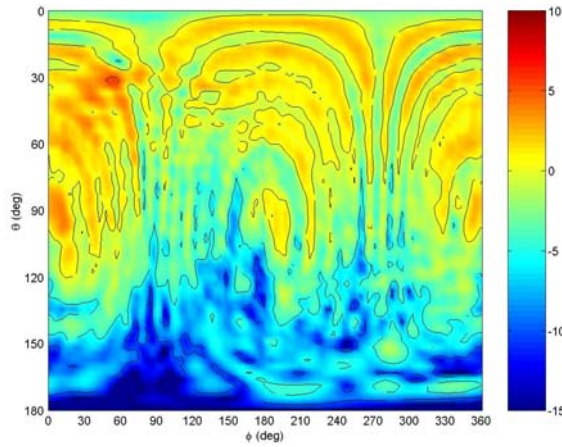
Phi = 90 degrees



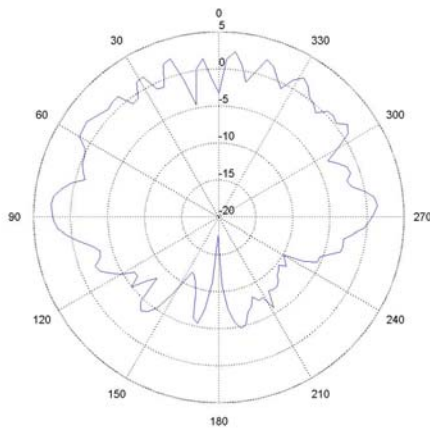
Theta= 90 degrees

Diversity data shown consists of combination of a left and right mounted antenna in a laptop screen with cable and connector loss removed.

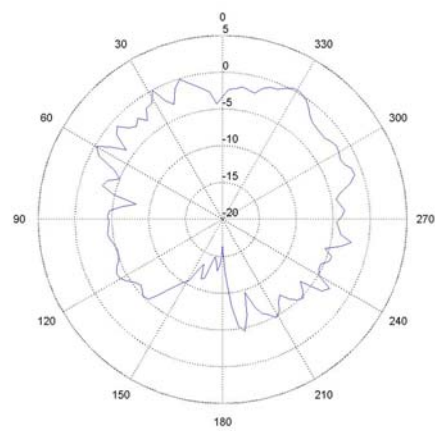
Diversity Spherical Gain Contour Map at 5.8 GHz



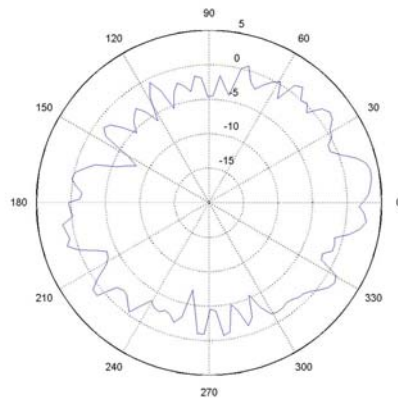
Diversity Gain Patterns at 5.8



Phi = 0 degrees



Phi = 90 degrees



Theta= 90 degrees

Diversity data shown consists of combination of a left and right mounted antenna in a laptop screen with cable and connector loss removed.

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