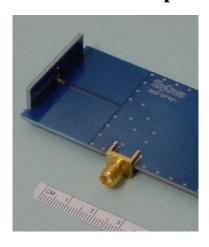


Antenna Products

800 - 2700 MHz Ultra-wideband Antenna for Worldphone Handheld Applications



Features

- Ultra-wideband Antenna Element
 - Monopole Pattern Covers Almost Two Octaves
- Frequency Range Covers Many Consumer Wireless Bands
 - SMR, AMPS, GSM, PDC, PHS, GPS, DCS, IMT-2000, ISM, MMDS
- Single Feed Point

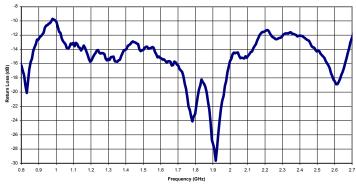
This Ultra-wideband antenna is designed using SkyCross' patented Meander Line Antenna (MLA) technology, providing superior efficiency and gain directivity in a small package. This antenna enables integration of many different frequency bands into one device for handheld or mobile applications.

Electrical Specifications*			
Frequency Range	800 — 2700 MHz		
VSWR	< 2:1 across entire band		
Polarization	Linear		
Azimuth Pattern	Omni-directional across entire band		
Feed Impedance	50 Ohms unbalanced		
*Antenna measurements taken on 3 inch ground plane, which includes a portion of the antenna			

Mechanical Specifications			
Size	1.10 x 1.69 x 0.42 in 28 x 43 x 10.8 mm		
Weight	5 g		

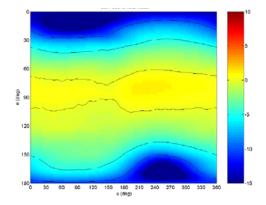
Performance Data				
Band	Application	Peak Gain	Efficiency	
800 MHz	AMPS	1.5 dBi	79%	
900 MHz	GSM	1.4 dBi	76%	
1575 MHz	GPS	3.0 dBi	84%	
1800 MHz	DCS	3.7 dBi	83%	
1900 MHz	PCS	3.6 dBi	77%	
2400 MHz	ISM	4.4 dBi	79%	
2700 MHz	MMDS	4.5 dBi	77%	

Typical Return Loss

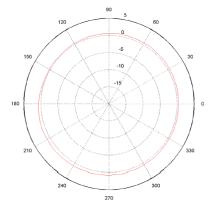




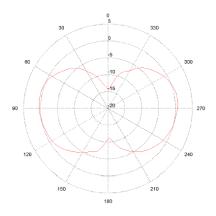
Spherical Gain Contour Map and Typical Gain Patterns at 820 MHz



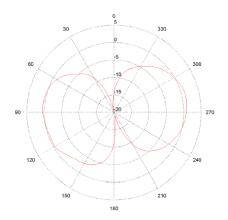
Spherical Gain Contour Map at 820 MHz



Gain at 820 MHz, Theta = 90

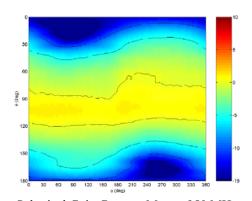


Gain at 820 MHz, Phi =0

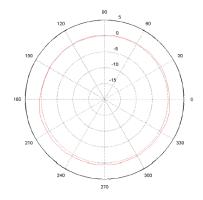


Gain at 820 MHz, Phi = 90

Spherical Gain Contour Maps and Typical Gain Pattern at 950 MHz



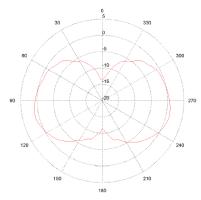
Spherical Gain Contour Map at 950 MHz



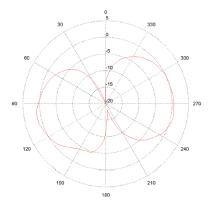
Gain at 950 MHz, Theta = 90



Typical Gain Patterns at 950 MHz

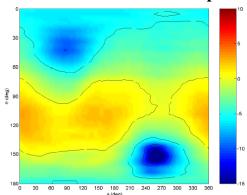


Gain at 950 MHz, Phi = 0

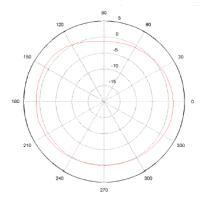


Gain at 950 MHz, Phi = 90

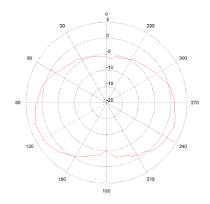
Spherical Gain Contour Maps and Typical Gain Pattern at 1575 MHz



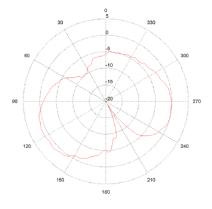
Spherical Gain Contour Map at 1575 MHz



Gain at 1575 MHz, Theta = 90



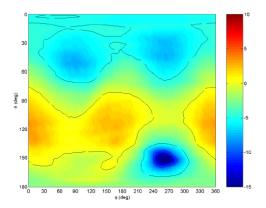
Gain at 1575 MHz, Phi = 0



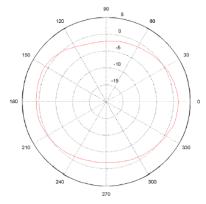
Gain at 1575 MHz, Phi = 90



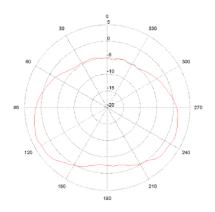
Spherical Gain Contour Map and Typical Gain Patterns at 1800 MHz



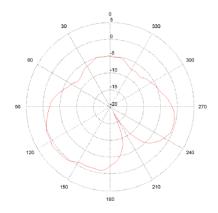
Spherical Gain Contour Map at 1800 MHz



Gain at 1800 MHz, Theta = 90

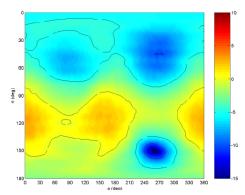


Gain at 1800 MHz, Phi = 0

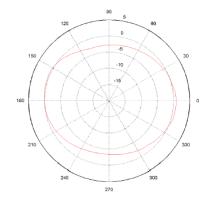


Gain at 1800 MHz, Phi = 90

Spherical Gain Contour Map and Typical Gain Pattern at 1900 MHz



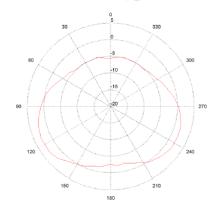
Spherical Gain Contour Map at 1900 MHz



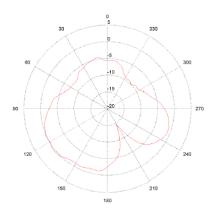
Gain at 1900 MHz, Theta = 90 MHz



Typical Gain Patterns at 1900 MHz

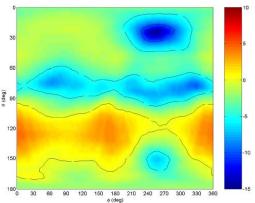


Gain at 1900 MHz, Phi = 0

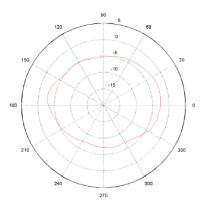


Gain at 1900 MHz, Phi = 90

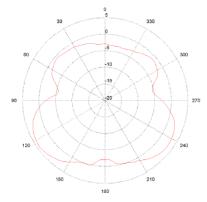
Spherical Gain Contour Map and Typical Gain Pattern at 2450 MHz



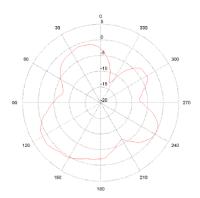
Spherical Gain Contour Map at 2450 MHz



Gain at 2450 MHz, Theta = 90



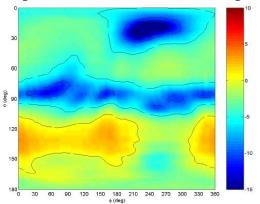
Gain at 2450 MHz, Phi = 0



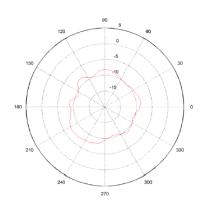
Gain at 2450 MHz, Phi = 90



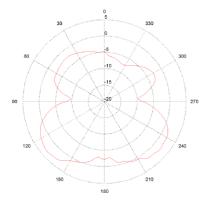
Spherical Gain Contour Map and Typical Gain Pattern at 2700 MHz



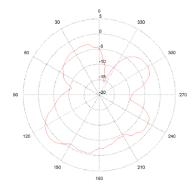
Spherical Gain Contour Map at 2700 MHz



Gain at 2700 MHz, Theta = 90



Gain at 2700 MHz, Phi = 0



Gain at 2700 MHz, Phi = 90

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