

## 800/1900 MHz Dual Frequency Antenna for AMPS and PCS Wireless Applications



## Features

- Very Efficient MLA Technology
- AMPS and PCS Bands
- *Peak Gain* + 4.3 *dBi at 1900 MHz*
- Peak Gain 0.6 dBi at 890 MHz
- Low Profile for Embedded Applications
- *Requires 2.3 dB less transmission power (average)*

This 800/1900 MHz antenna is designed using SkyCross' patented MLA technology, providing superior efficiency and gain directivity in a small package. This antenna is the best performance solution for developers implementing a dual frequency wireless system in the AMPS and PCS bands, and is installed in commercially available handsets and proven to require 2.3 dB less average transmission power in side-by-side tests against an existing whip antenna. For further performance test details, please refer to www.skycross.com/drive\_test.com.

Electrical Specifications	
Frequency Range	824—894 MHz 1850—1990 MHz
Gain	- 0.6 dBi at 890 MHz + 4.3 dBi at 1900 MHz
VSWR	3.0:1 AMPS 2.0:1 PCS
Polarization	Linear
Azimuth Pattern	<b>Omni-directional</b>
Feed Impedance	50 Ohms Unbalanced

Mechanical Specifications	
Size	1.3 x 0.8 x 0.35 inches 34 x 20 x 9 mm
Weight	14.2 g*
* weight does not include ground plane or connector	











## Typical Gain Pattern in PCS Band



(16° below horizon)

## **Typical Gain Pattern in AMPS Band**



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