

### 850 & 1900 MHz OMNI-DIRECTIONAL IN-BUILDING ANTENNA

The widespread use of cellular phones and wireless network applications inside buildings has increased the need for antenna systems that can provide considerable gain over traditional dipole antennas.

Laird Technologies' in-building wireless antennas are particularly applicable in environments where aesthetics and wide angle coverage are necessary for successful wireless deployment. Their surprisingly small size allow the antennas to be hidden almost anywhere, providing an invisible solution for most applications.

#### FEATURES

- Surprisingly small size allows it to be hidden almost anywhere, providing an invisible solution for many applications.
- The field pattern is toroidal, providing omni-directional coverage in any plane around the long axis of the antenna, and two lobes in any plane parallel to the long axis.

#### MARKETS

- The omni-directional pattern is suited to a variety of uses, including handheld devices, in-building systems or other applications where mobility is a factor.

SPECIFICATIONS	
Element Type	Microstrip
Frequency Range	806 – 896 MHz 1850 – 1990 MHz
Peak Gain	3 dBi
Polarization <sup>1</sup>	Linear
Impedance	50 ohms
Maximum Input Power	50 watts
VSWR (Min. Performance)	1.5:1
Dimensions (L x W x H)	15.9 x 13.6 x 0.25 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IF8519-SF00	CAF94135	SMA Female Panel

#### MOUNTING OPTIONS

- Includes nylon screws for mounting to ceiling tile or finished ceiling

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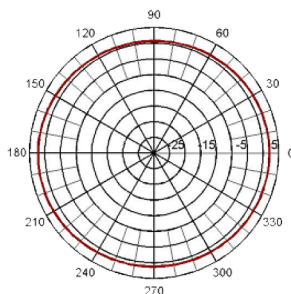
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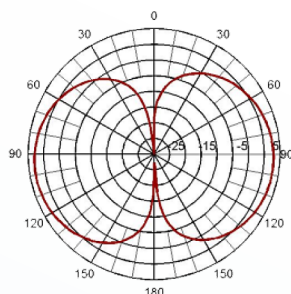
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# 850 & 1900 MHz MicroSphere Antenna

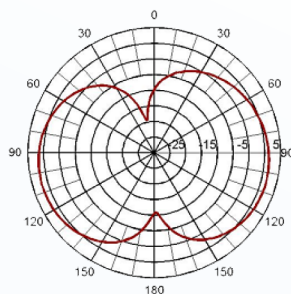
## 850 MHz



**Azimuth Plane**  
Perpendicular to antenna,  
parallel to cable

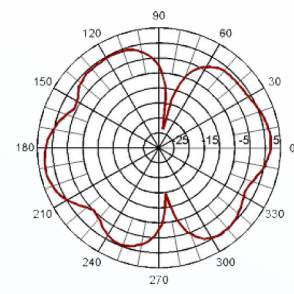
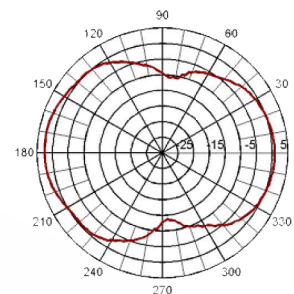
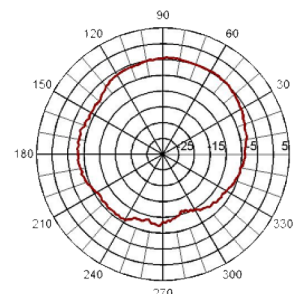


**Elevation Plane**  
Perpendicular to antenna,  
perpendicular to cable



**Omni Plane**  
In the plane of the antenna

## 1900 MHz



ANT-DS-IF8519 0609

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