Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

IF1900
1900 MHz MicroSphere Antenna

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.

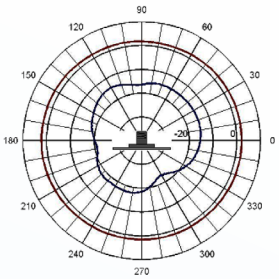
Laird Technologies' in-building wireless antennas are particularly applicable in environments where aesthetics and wide angle coverage are necessary for successful wireless deployment. Their surprisingly small size allow the antennas to be hidden almost anywhere, providing an invisible solution for most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

FEATURES

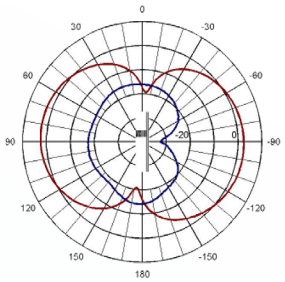
- Surprisingly small size allows it to be hidden almost anywhere, providing an invisible solution for many applications.
- The field pattern is toroidal, providing omni-directional coverage in any plane around the long axis of the antenna, and two lobes in any plane parallel to the long axis.

MARKETS

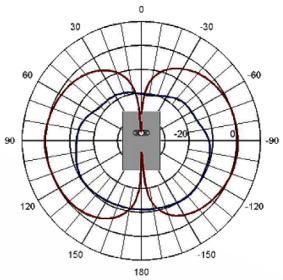
- The omni-directional pattern is suited to a variety of uses, including handheld devices, in-building systems or other applications where mobility is a factor.



Azimuth Plane
Cut perpendicular to the antenna, parallel to the connector/cable exit, perpendicular to the polarization



Elevation Plane
Cut perpendicular to the antenna, parallel to the connector/cable exit, parallel to the polarization axis



Omni Plane
Cut in the plane of the antenna perpendicular to the connector/cable exit

SPECIFICATIONS	
Element Type	Microstrip
Frequency Range	1850 – 1990 MHz
Peak Gain	3 dBi
Polarization[1]	Linear
Impedance	50 ohms
Maximum Input Power	50 watts
VSWR (Min. Performance)	1.5:1
Dimensions (L x W x H)	5.6 x 3.5 x 0.25 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IF1900-SF00	CAF95955	SMA Female Panel

MOUNTING OPTIONS

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

global solutions: local support™

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