Laird TECHNOLOGIES

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

IF2100
UMTS MicroSphere Antenna



UMTS 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.

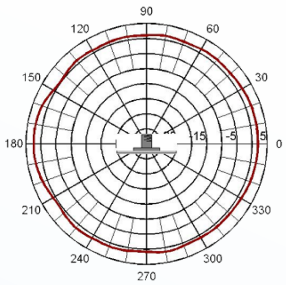
Laird Technologies' in-building wireless antennas are particularly applicable in environments where aesthetics and wide angle coverage are necessary for successful wireless deployment. Their surprisingly small size allow the antennas to be hidden almost anywhere, providing an invisible solution for most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

FEATURES

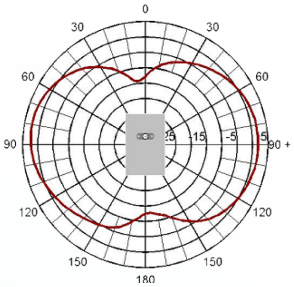
- Surprisingly small size allows it to be hidden almost anywhere, providing an invisible solution for many applications.
- The field pattern is toroidal, providing omni-directional coverage in any plane around the long axis of the antenna, and two lobes in any plane parallel to the long axis.

MARKETS

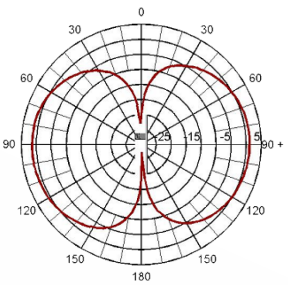
- The omni-directional pattern is suited to a variety of uses, including handheld devices, in-building systems or other applications where mobility is a factor.



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



Elevation Plane phi=0
Cut parallel to the antenna, perpendicular to the connector/cable exit, parallel to the polarization axis



Elevation Plane phi=90
Cut perpendicular to the antenna, parallel to the connector/cable exit, parallel to the polarization axis

SPECIFICATIONS	
Element Type	Microstrip
Frequency Range	1920 – 2170 MHz
Peak Gain	3 dBi
Polarization[1]	Linear
Impedance	50 ohms
Maximum Input Power	50 watts
VSWR (Min. Performance)	2:1
Dimensions (L x W x H)	5.5 x 3.6 x 1.5 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IF2100-SF00	CAF94358	SMA Female Panel

MOUNTING OPTIONS

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

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