



2.4 GHz OMNIDIRECTIONAL 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.

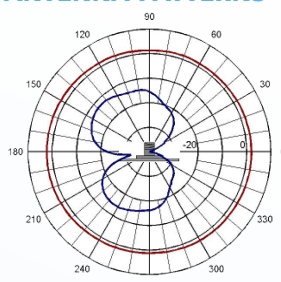
FEATURES

- 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.

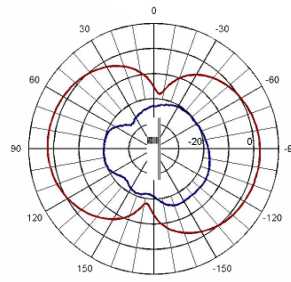
MARKETS

- 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.

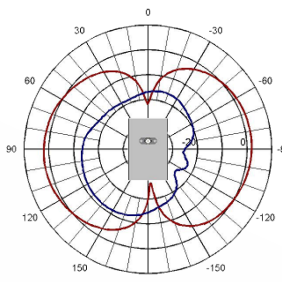
ANTENNA PATTERNS



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	2.4 – 2.5 GHz
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)	4.6 x 3 x 0.25 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IF2450-SF00	CAF94146	SMA Female Panel

MOUNTING OPTIONS

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

global solutions: local support.™

Americas: +1.847.839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

ANT-DS-IF2450 0909

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2009 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.