



### 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.

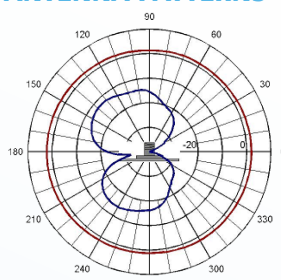
### FEATURES

- 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.

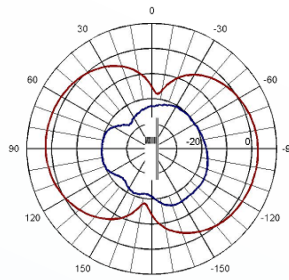
### MARKETS

- 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.

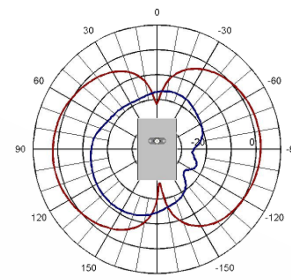
### ANTENNA PATTERNS



**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 <sup>1</sup>	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

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