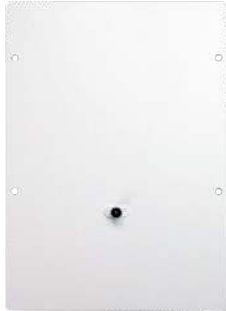




Smart Technology. Delivered.

# 450 MHz MicroSphere Antenna

## IF450



### 450 MHz 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's 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.

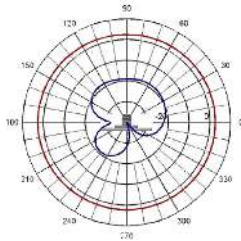
### FEATURES

- 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

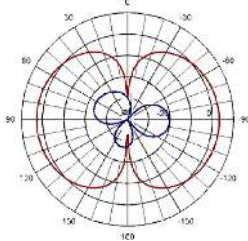
- The UHF band antenna is a good solution for stealth in-building public safety systems.

### ANTENNA PATTERNS



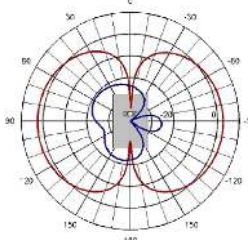
**Azimuth Plane**

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**

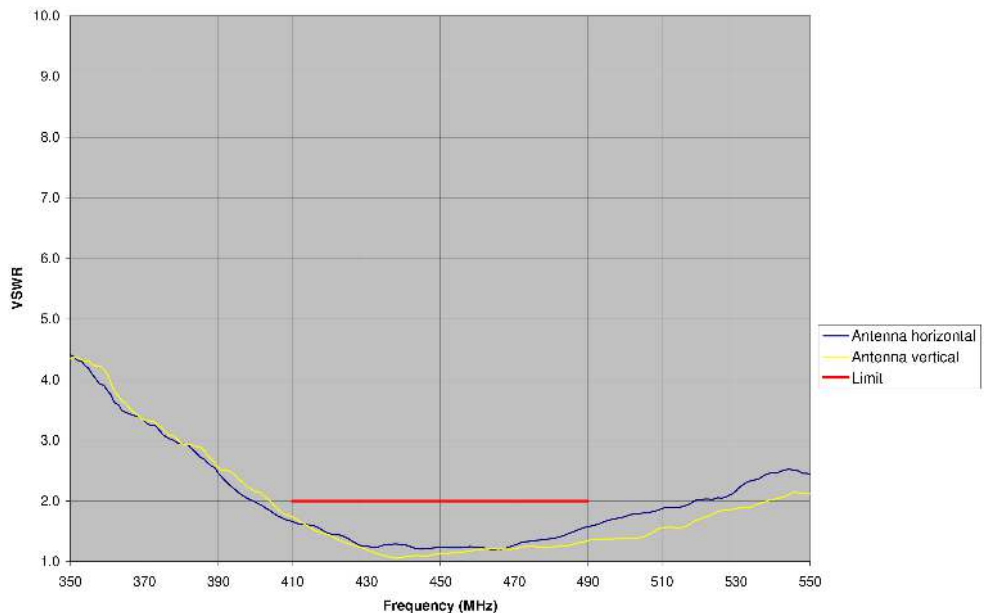
Cut in the plane of the antenna perpendicular to the connector/cable exit

SPECIFICATIONS	
Element Type	Microstrip
Frequency Range	410-520 MHz (UHF)
Peak Gain	3 dBi
Polarization	Linear
Impedance	50 ohms
Maximum Input Power	10 watts
VSWR	2:1 Typical across the band
Dimensions (L x W x H)	13 x 14.7 x .25 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IF450-SF00	CAF94350	SMA Female Panel

### MOUNTING OPTIONS

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



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