



CFS69271

3G/4G MicroSphere - Multiband In-Building Antenna 698-806 MHz/824-960 MHz/1710-1880 MHz/1850-1990 MHz/1920-2170 MHz/2100-2700 MHz

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 Connectivity'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 and low profile allow the antennas to be hidden almost anywhere, providing an invisible solution for most applications.

FEATURES AND BENEFITS

- Applicable for both 3G and 4G solutions
- Global LTE 2600 band
- WiMax 2100/2300/2500
- Domestic cellular and global GSM
- Surface mount connector
- Small size allows it to be hidden almost anywhere, providing an invisible solution for many applications
- Toroidal field pattern which provides omnidirectional coverage in any plane around the long axis of the antenna and two lobes in any plane parallel to the long axis

APPLICATIONS

- Broadband wireless access service provider
- Campus, healthcare, or transportation terminals
- Indoor stadiums, industrial plants, processing stations
- Public safety radio

ELECTRICAL SPECIFICATIONS

Model Name	CFS69271-FNF/CFS69271-FSMAF					
Operating Frequency (MHz)	698-806	824-960	1710-1880	1850-1990	1920-2170	2500-2700
Gain (dBi)	1.5		3.0		4.5	
Efficiency (%)	80		85		85	
VSWR - Max (Typical)	2.1					
Nominal Impedance (Ohms)	50					
Max Power - Ambient 25°C (W)	50					
Polarization	Linear					
Horizontal Plane 3 dB Beamwidth	Omnidirectional					

MECHANICAL SPECIFICATIONS

Dimensions - H x D - cm (inches)	100.0 x 164.0 x 1.6 (3.94 x 6.46 x 0.06)
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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature - °C (°F)	-40 to +70°C (-40 to +158°F)
Storage Temperature - °C (°F)	-40 to +70°C (-40 to +158°F)
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CONNECTOR
CFS69271-FNF	Surface Mount N-Female
CFS69271-FSMAF	Surface Mount SMA Female

RADIATION PATTERNS

