



This Laird LTE HCF69273 omni-directional antenna is a tough low-profile antenna for outdoor or indoor applications. This antenna provides frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications.

The HCF69273 antenna is available in various industry-standard mounting configurations including a threaded permanent stud mount model for vandal resistant mounting on brackets, panels, ceilings, or any other kind of housing.

FEATURES AND BENEFITS

- Multi-band operation: 698-960 MHz/1690-2700 MHz
- Meets IP67 protection rating for dust tight seal and temporary water immersion
- Permanent mount with coaxial pigtail is ideal for radios within a metal enclosure
- Conformance to RoHS

ELECTRICAL SPECIFICATIONS								
Operating Frequency (MHz)	698-824	824-894	880-960	1690-1880	1850-1990	1920-2170	2300-2500	2500-2700
Peak Gain – Avg (dBi)	1.0	1.2	1.0	2.8	3.1	3.3	3.3	3.4
Peak Gain – Max (dBi)	1.5	1.2	1.2	3.3	3.4	3.6	3.5	3.8
VSWR – Avg	<1.8	<1.8	<2.1	<1.4	<1.6	<1.5	<1.3	<1.6
VSWR – Max	<2.6:1			<2.0:1				
Nominal Impedance (Ohms)	50							
Max Power - Ambient 25°C (W)	10							
Polarization	Vertical							
Azimuth 3 dB Beamwidth	360° (Omnidirectional)							

MECHANICAL SPECIFICATIONS	
Dimensions – height x diameter – mm (inches)	80.0 x 37.0 (3.2 x 1.5)
Weight – kg (lbs.)	0.10 (0.22)
Radome	PC, Lexan EXL9330, UV Resistant, UL94 V-0
Antenna Color	Black/White
Installation Torque (Nm)	4-6

ENVIRONMENTAL SPECIFICATIONS	
Operating Environment (Indoor or Outdoor)	Indoor and Outdoor
Operating Temperature – °C (°F)	-30 to +70 (-22 to +158)
Storage Temperature – °C (°F)	-40 to +85 (-40 to +185)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CABLE TYPE	CABLE LENGTH	CONNECTOR	COLOR
HCF69273BN-60A	Ultralink 092463	60.8 cm (24 in.)	SMA Male	Black
HCF69273WN-60A	Ultralink 092463	60.8 cm (24 in.)	SMA Male	White

PACKAGED DIMENSIONS	CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	50	900	1,200
Height – cm (in.)	30.1 (11.85)	104.0 (41.0)	135.0 (53.15)
Length – cm (in.)	26.6 (10.47)	120.0 (47.24)	120.0 (47.24)
Width – cm (in.)	52.6 (20.71)	80.0 (31.5)	80.0 (31.5)
Shipping Weight – kg (lb.)	7.325 (16.15)	141.85 (312.73)	185.8 (409.62)

MECHANICAL DRAWING

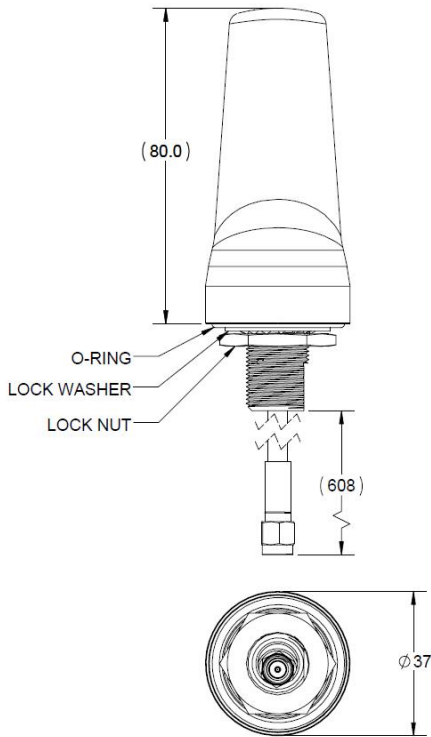


Figure 1: HCF69273xN mechanical drawing

MOUNTING OPTIONS

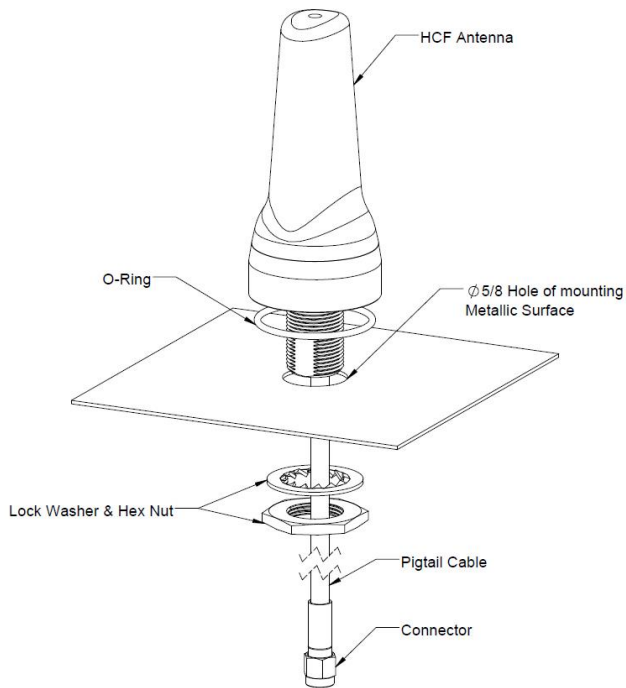
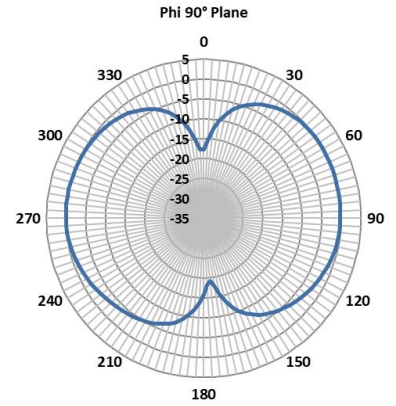
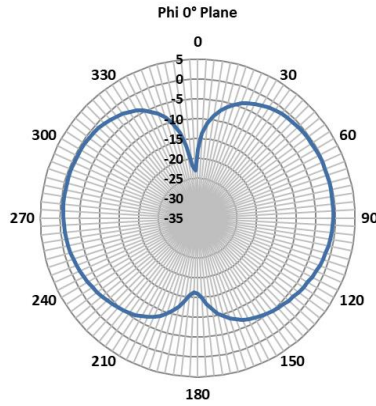
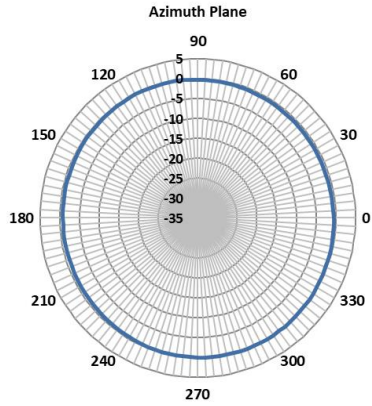


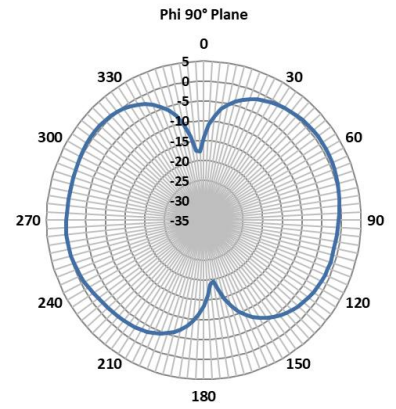
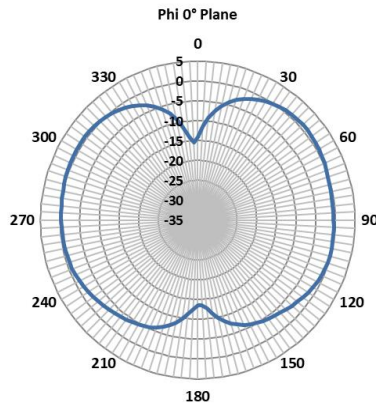
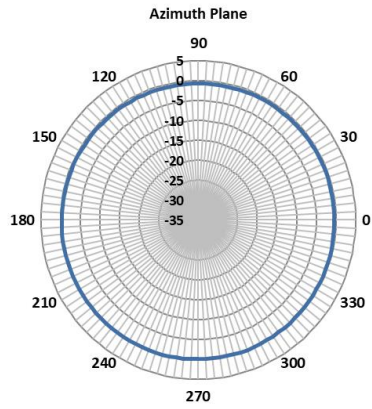
Figure 2: HCF6927M3 mounting

RADIATION PATTERNS

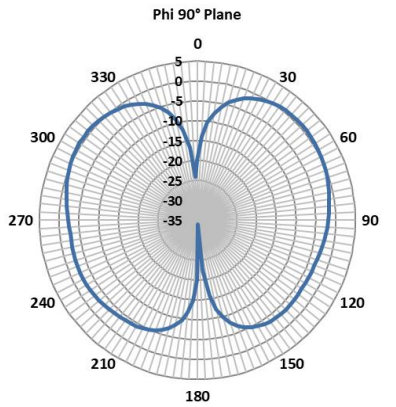
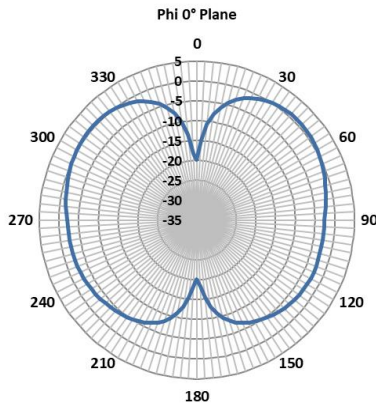
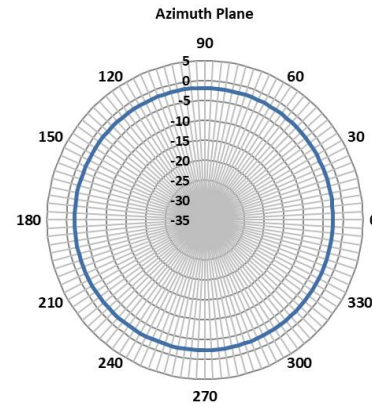
698 MHz



824 MHz

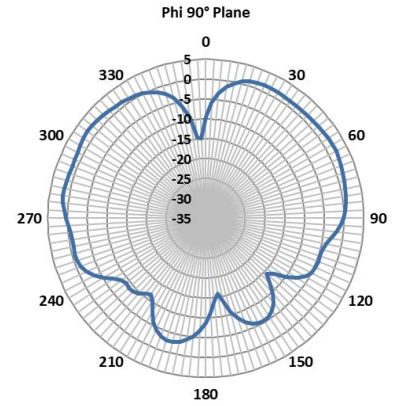
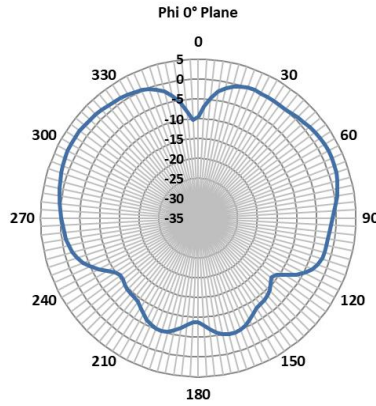
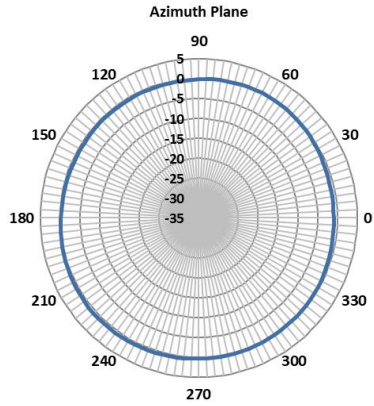


960 MHz

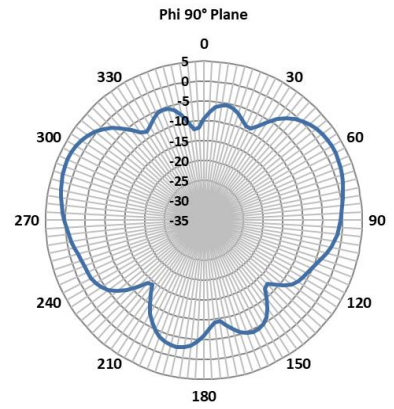
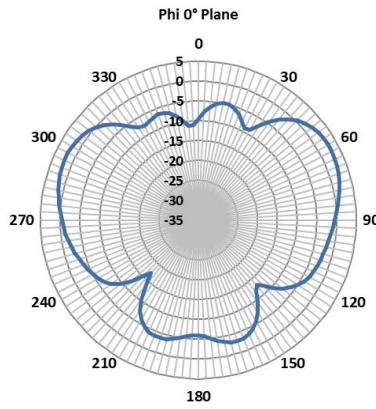
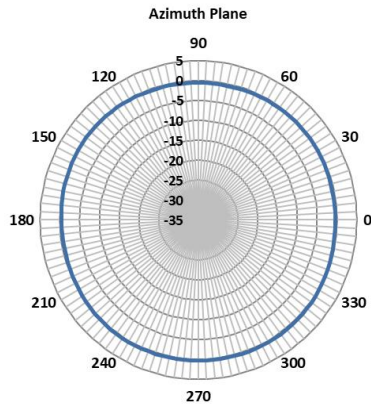


RADIATION PATTERNS

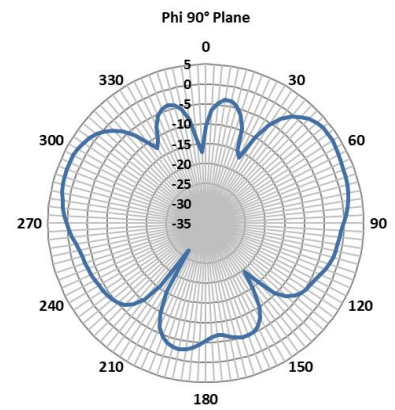
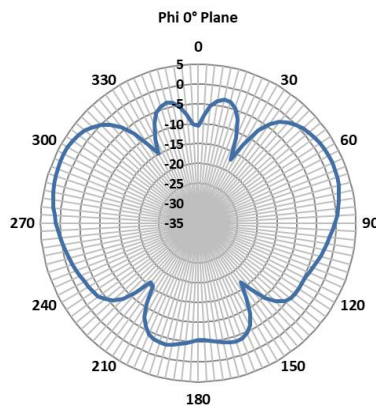
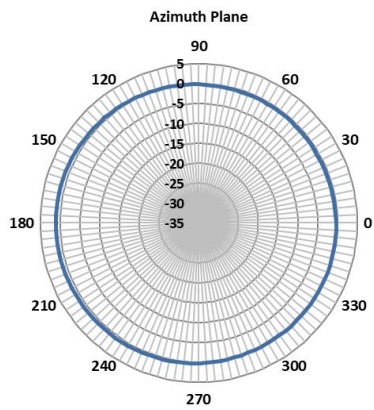
1690 MHz



1950

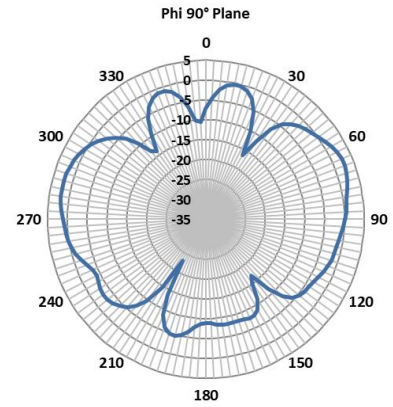
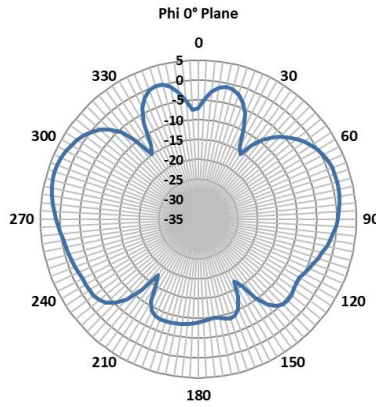
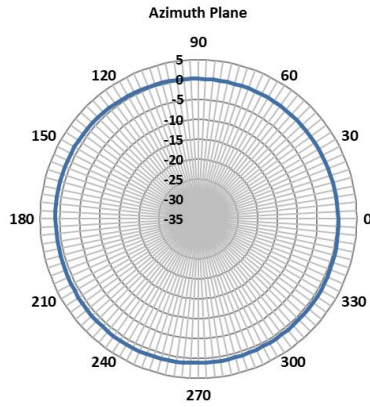


2170 MHz

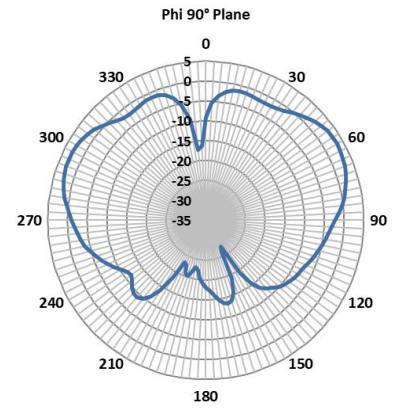
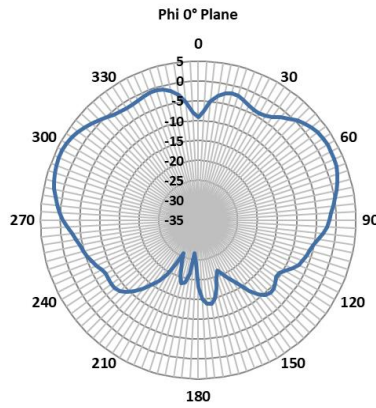
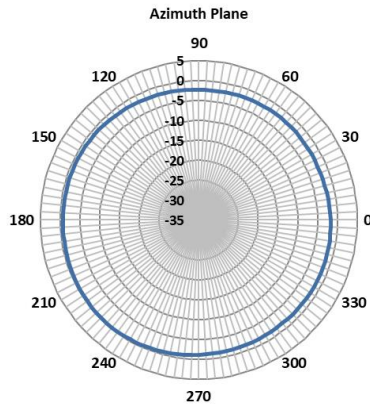


RADIATION PATTERNS

2412 MHz



2700 MHz



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