

## Omni SISO 3G-4G LTE Disk-Puck Antenna



Patent Pending LPS69273NT

## LOW PROFILE SURFACE MOUNT 698-960/1710-2700 MHZ DISK-PUCK ANTENNA

The Laird Patent Pending LPS69273NT antenna is a multiband low profile omnidirectional disk-puck antenna operating over the 698-960 MHz and 1710-2700 MHz frequency bands. Designed to be a surface mount antenna that performs well on metallic and non-metallic\* surfaces, the antenna is ideal for use in Machine-to-Machine (M2M) applications. The housing incorporates a low profile, rugged design that conforms to IP67 standards making the antenna suitable for both indoor and outdoor applications.

 FEATURES 

- Low Profile aesthetically neutral housing
- Surface mount with stud & locking nut
- Designed for both Indoor & Outdoor applications
- IP67 rated for harsh environmental applications

## BENEFITS

- 3G/4G LTE & Wi-Fi communications in a single solution
- Applicable for both metal and non-metallic\* surface

## MARKETS

- Machine-to-Machine (M2M)
- LTE & 3G/4G Cellular, Wi-Fi & WLAN
- Utilities, Remote Monitoring, Kiosks & ATMs
- Warehouse, Offices & Meeting rooms
- Hotels, Museums, Libraries & Retail Malls
- Airport, Bus Terminals & Train Stations
- Other In-Building & Outdoor areas

## SPECIFICATIONS

PARAMETER	SPECIFICATIONS							
Frequency Bands, MHz	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
VSWR (Typ)	<2.7:1	<2.9:1	<2.8:1	<2.1:1	<1.7:1	<1.7:1	<2.3:1	<2.3:1
VSWR (Max)	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1
Peak Gain, dBi (Typ)								
On Metal Housing	2.1	0.7	1.7	5.4	4.6	4.5	3.4	3.7
On Plastic Housing w/ Ground Plane Kit	2.4	1.1	2.3	5.5	4.4	4.0	3.8	3.8
Peak Gain, dBi (Max)								
On Metal Housing	2.5	1.1	2.3	5.9	4.8	4.9	3.8	4.0
On Plastic Housing w/ Ground Plane Kit	2.9	1.4	3.1	5.9	5.3	4.3	4.4	4.3
Nominal Impedance				50Ω				
Polarization				Linear, Vertical				
Azimuth Beam Width				Omnidirectional				
Max Power (ambient temp of 25°C)				10 Watts				
Dimensions (diameter x height)				Ø127mm X 31mm (Ø 5" X 1.22")				
Weight				Approximately 0.20 kg ( 0.44 lbs.)				
Antenna Color / Radome				Black / PC, UV Stable, UL94 V-0 Material				
Storage Temperature Range (°C)				-40°C to +85°C ( -40°F to +185°F )				
Operational Temperature Range (°C)				-30°C to +70°C ( -22°F to +158°F )				
Ingress Protection Rating				IP67				
RoHS Compliance				Yes				
Cable Type				RG316				

\* Requires a 300mm diameter Ground Plane Kit (order separately with P/N HKIT-LPx-001)

## CONNECTORS

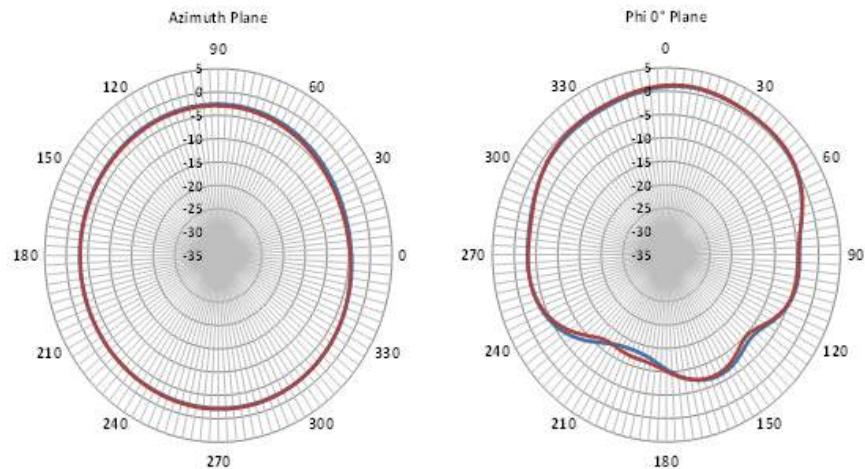
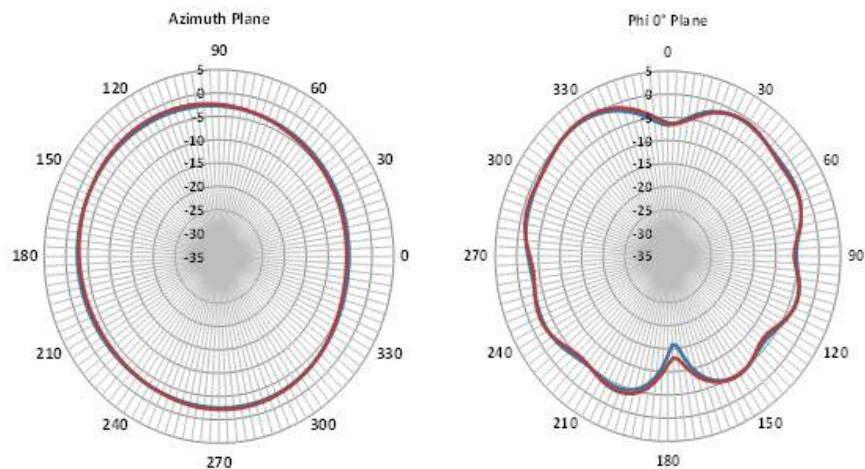
MODEL NUMBER	CABLE LENGTH	CONNECTOR
LPS69273NT-61SMAM	610 mm (24 in)	SMA- male
LPS69273NT-61RTNM	610 mm (24 in)	RTNC- male

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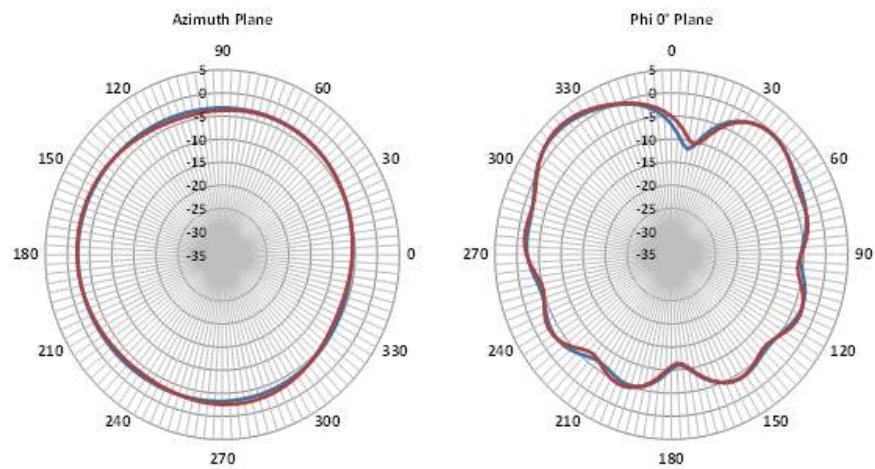


**Omni SISO 3G-4G LTE Disk-Puck Antenna****Radiation Pattern at 698 MHz****Radiation Pattern at 880 MHz**

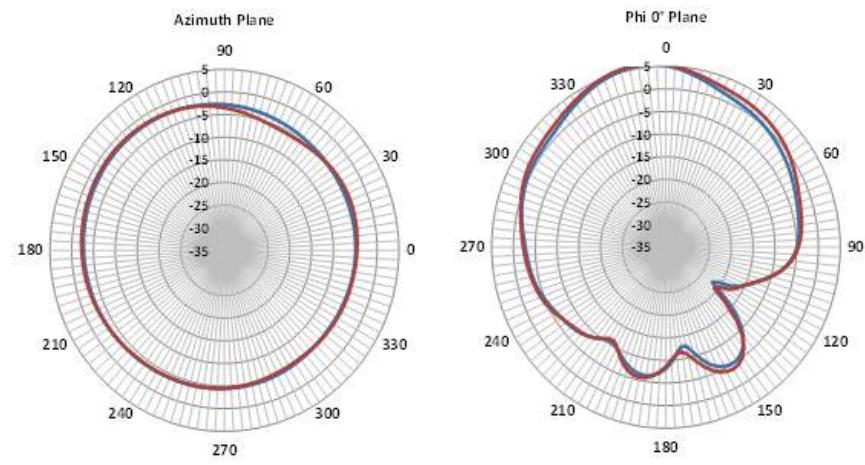
— On metal housing  
— On plastic housing with ground plane kit

## Omni SISO 3G-4G LTE Disk-Puck Antenna

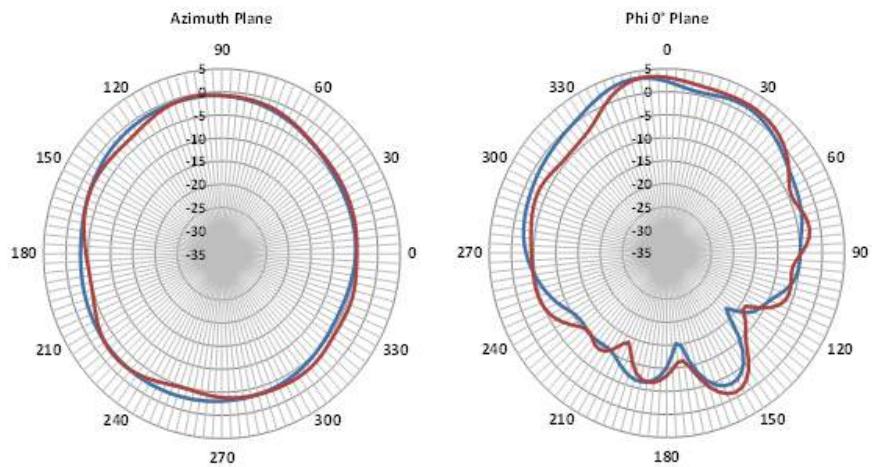
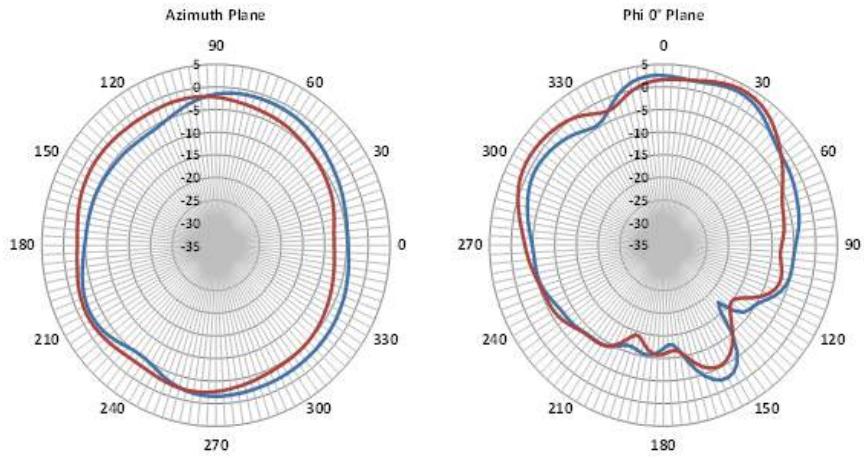
Radiation Pattern at 960 MHz



Radiation Pattern at 1710 MHz

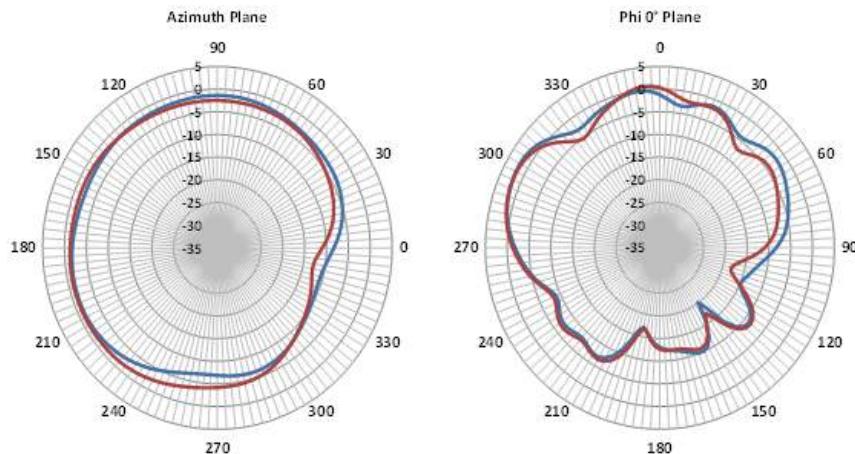


— On metal housing  
— On plastic housing with ground plane kit

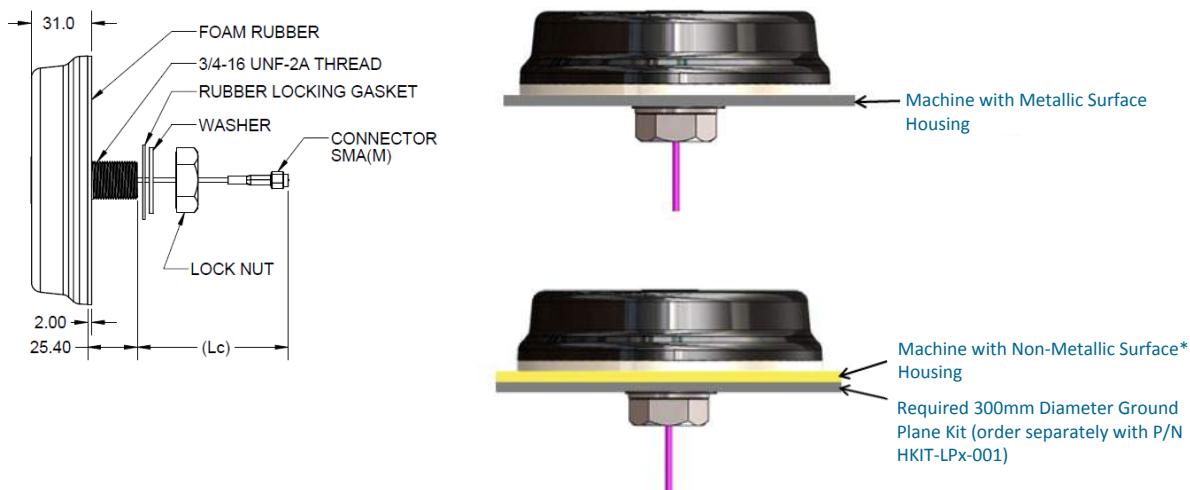
**Radiation Pattern at 1950 MHz****Radiation Pattern at 2170 MHz**

— On metal housing  
— On plastic housing with ground plane kit

Radiation Pattern at 2700 MHz



## HOUSING CONFIGURATIONS



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