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# LPS69273NT Omni SISO 3G-4G LTE Disk-Puck Antenna

## 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.



Patent Pending LPS69273NT

### 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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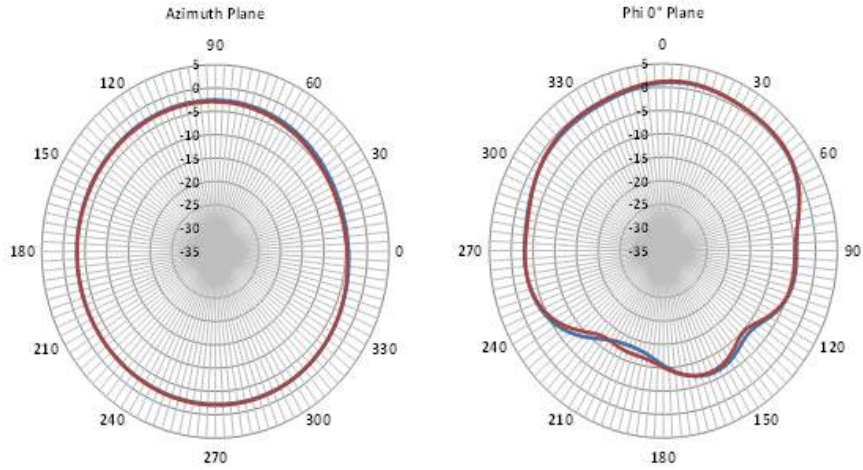
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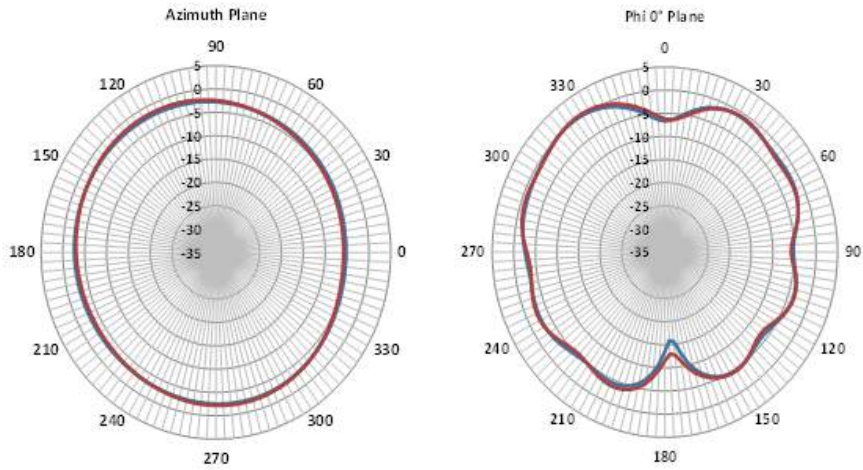
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### Radiation Pattern at 698 MHz

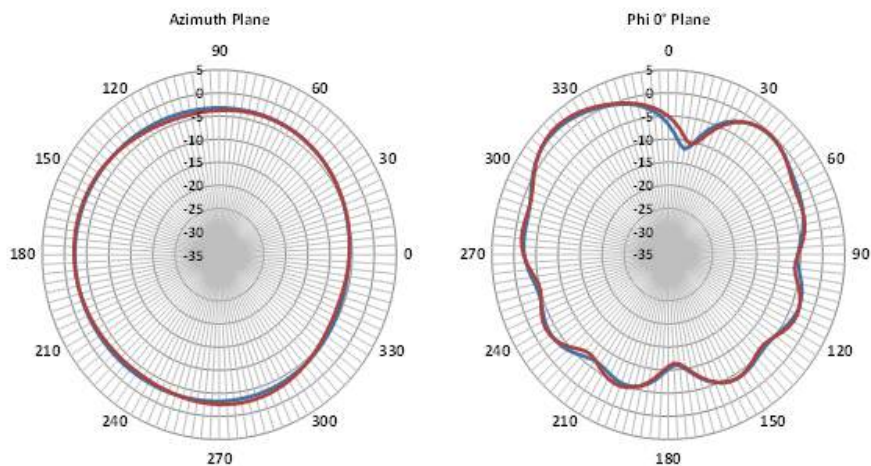


### Radiation Pattern at 880 MHz

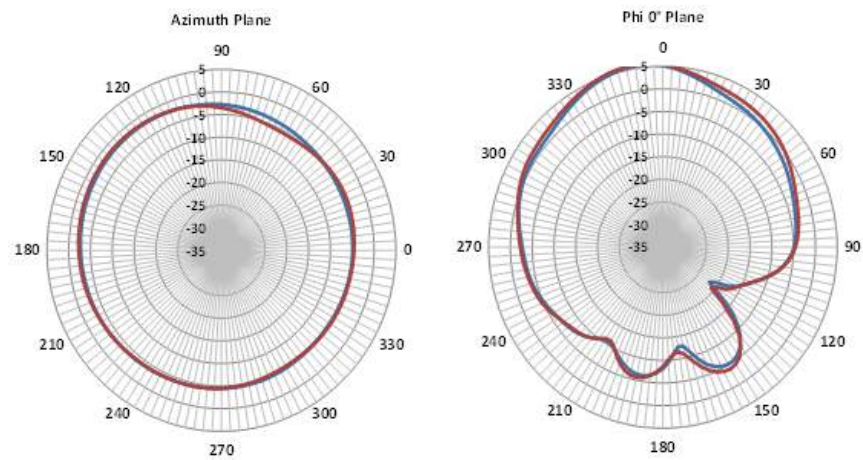


— On metal housing  
— On plastic housing with ground plane kit

**Radiation Pattern at 960 MHz**

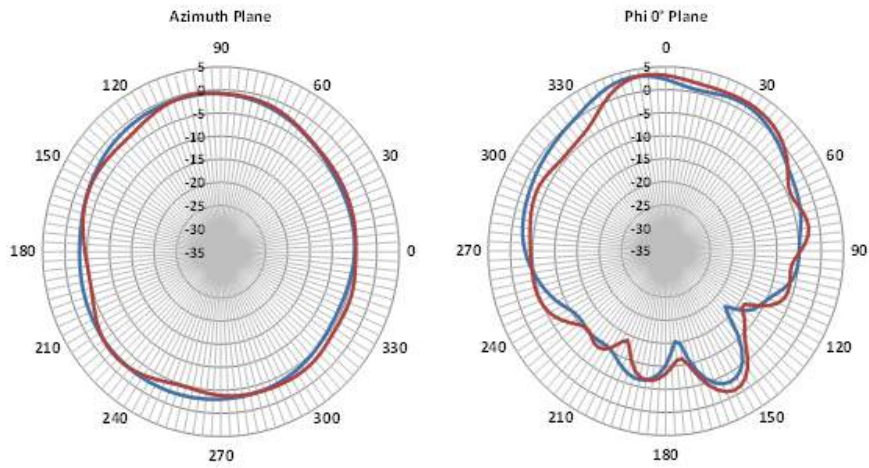


**Radiation Pattern at 1710 MHz**

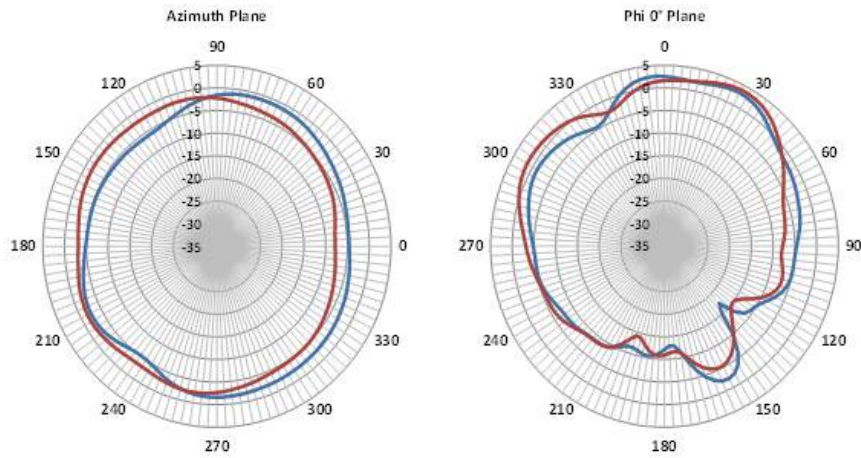


— On metal housing  
— On plastic housing with ground plane kit

**Radiation Pattern at 1950 MHz**

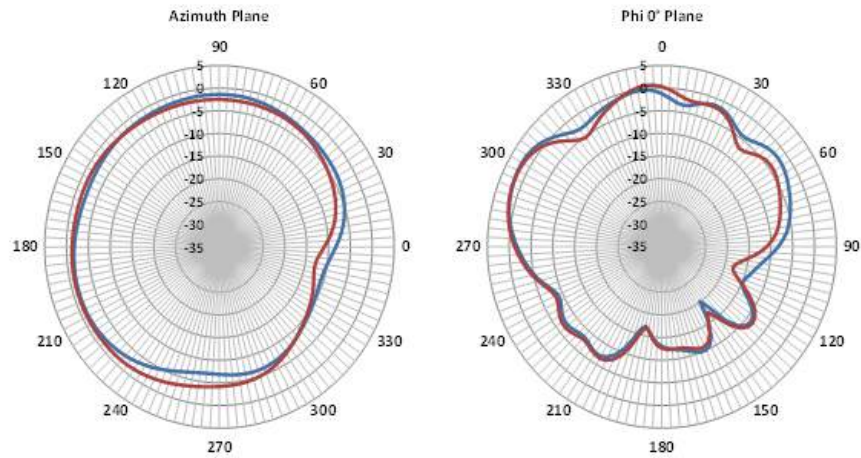


**Radiation Pattern at 2170 MHz**

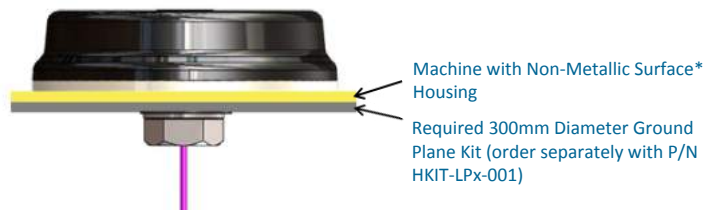
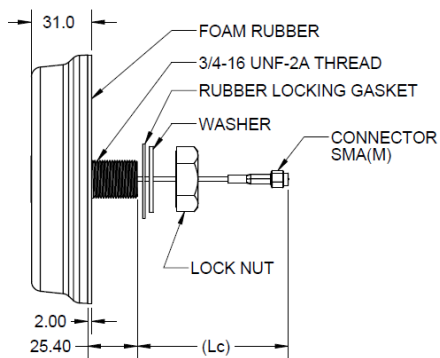


— On metal housing  
— On plastic housing with ground plane kit

**Radiation Pattern at 2700 MHz**



**HOUSING CONFIGURATIONS**



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