

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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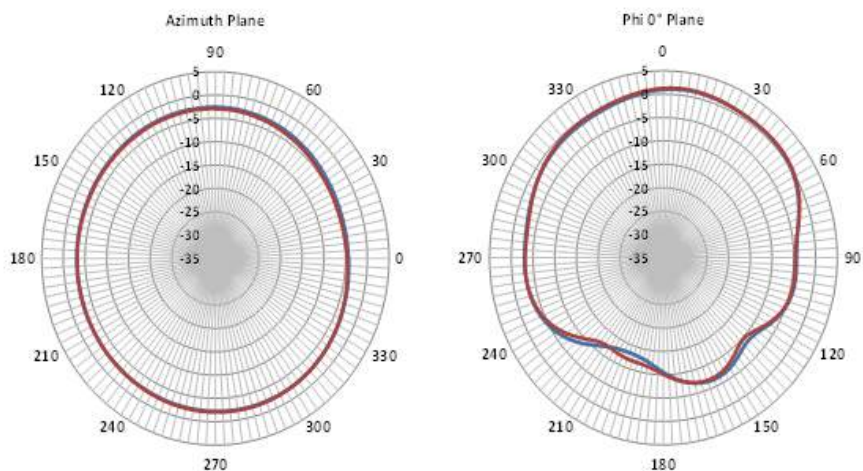
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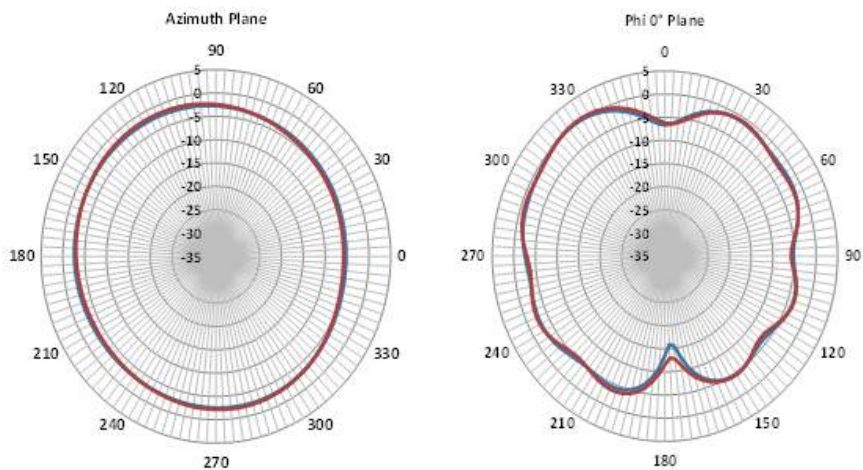
Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.



Radiation Pattern at 698 MHz



Radiation Pattern at 880 MHz

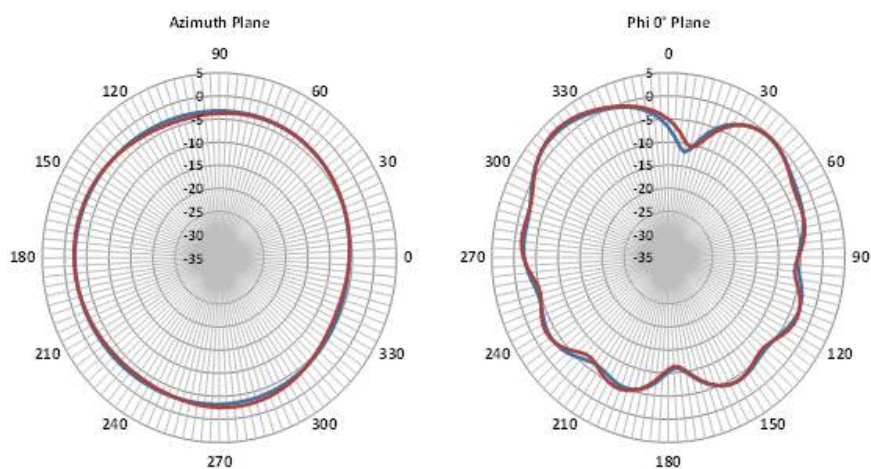


— On metal housing
— On plastic housing with ground plane kit

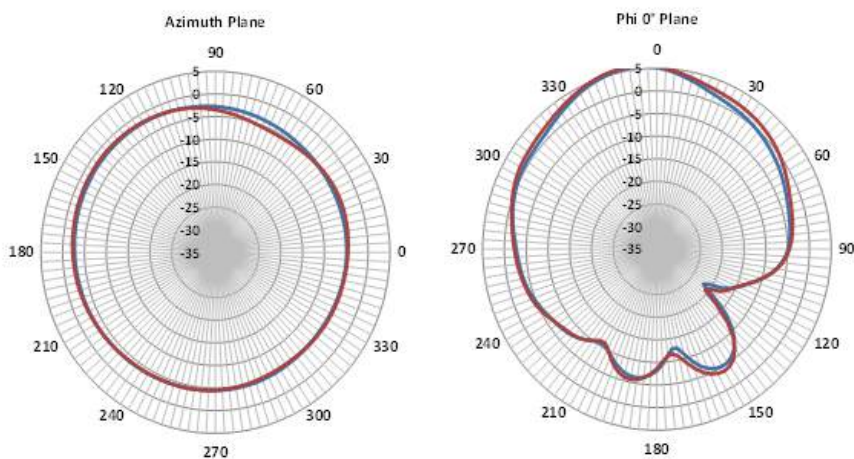
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Radiation Pattern at 960 MHz

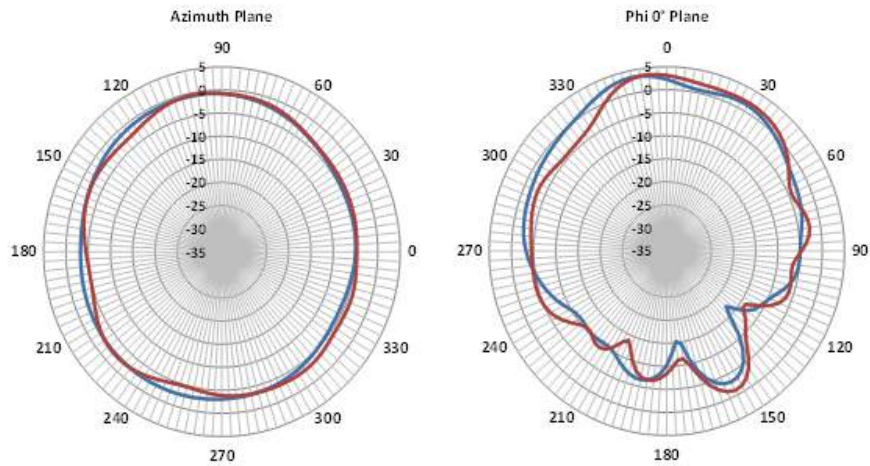


Radiation Pattern at 1710 MHz

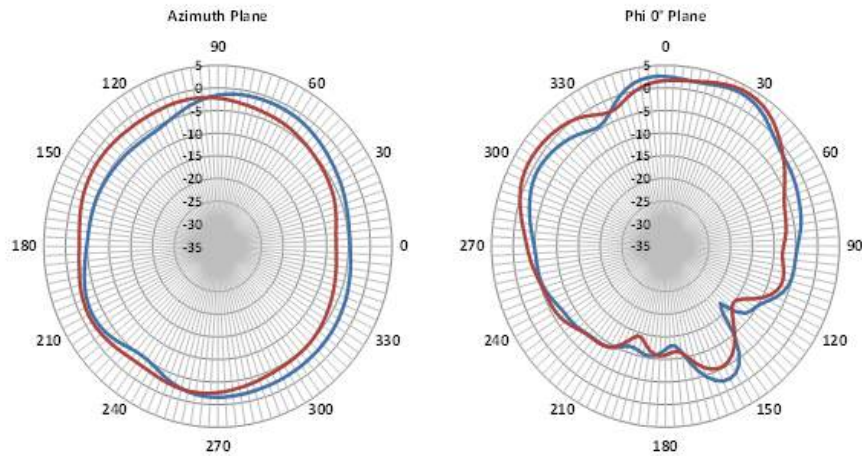


— On metal housing
— On plastic housing with ground plane kit

Radiation Pattern at 1950 MHz



Radiation Pattern at 2170 MHz

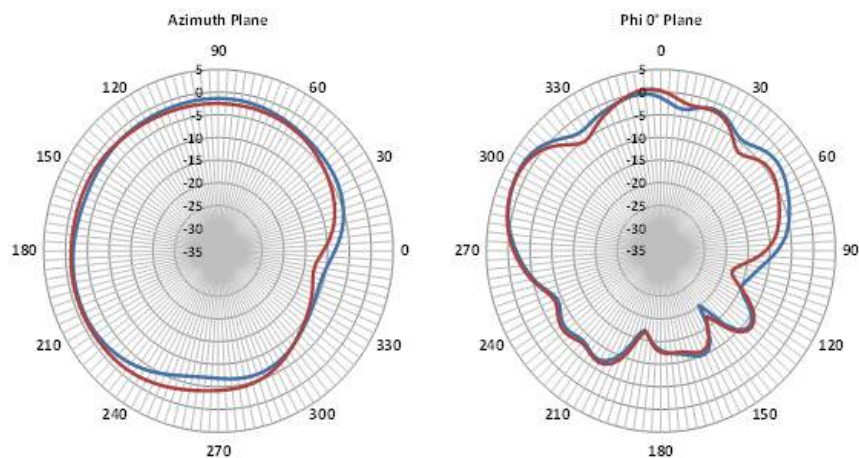


— On metal housing
— On plastic housing with ground plane kit

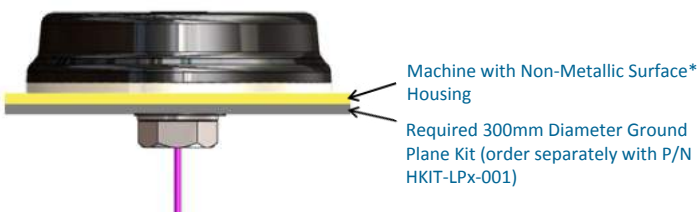
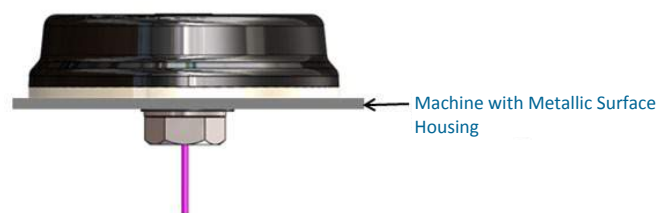
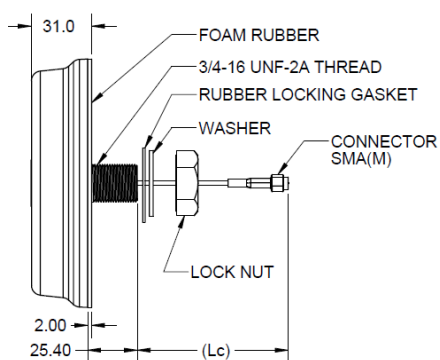
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Radiation Pattern at 2700 MHz



HOUSING CONFIGURATIONS



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