



LOW PROFILE SURFACE MOUNT 880-960/1710-2170 MHZ DISK ANTENNA Laird's LPS88213NT antenna is a multiband low profile disk antenna operating over the 880-960 MHz and 1710-2170 MHz cellular bands. Designed to be a surface mount antenna that performs well on 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 solutions.

FEATURES

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

BENEFITS

- Cellular and 2G/3G data communications in a single solution
- Applicable for both metal and non-metal housings

MARKETS

- M2M
- Cellular
- Electric, gas & water utilities
- Remote monitoring, kiosks & ATM
- Production monitoring & control
- Transportation, shipping hubs & ports

SPECIFICATIONS

PARAMETER	SPECIFICATION			
Frequency Bands, MHz	880-960	1710-1880	1850-1990	1910-2170
VSWR (Typ)				
On Plastic Housing	<2.3:1	<2.5:1	<1.8:1	<2.3:1
On Metal Housing	<2.4:1	<1.4:1	<1.5:1	<2.5:1
VSWR (Max)	3.0:1	3.0:1	3.0:1	3.0:1
Peak Gain, dBi (Typ)				
On Plastic Housing	2.3	1.7	2.0	2.5
On Metal Housing	2.2	4.4	3.7	3.7
Peak Gain, dBi (Max)				
On Plastic Housing	3.4	2.1	2.5	3.0
On Metal Housing	2.5	5.0	3.9	3.9
Nominal Impedance	50 Ω			
Max Power	10 Watts			
Azimuth Beam Width (deg)	Omnidirectional			
Polarization	Linear, Vertical			
Power, Max	10 Watts			
Dimensions (diameter x height)	90 mm X 26 mm (3.5" X 1.0")			
Weight	108.5 g (0.24 lbs)			
Wind Survival	200 km/h (119.9 mph)			
Storage Temperature	-40° C to +85° C			
Operational Temperature	-30° C to +70° C			
Radome	PC, Black			
IP Rating	IP67			
Material Substance Compliance	RoHS Compliant			

CONNECTORS

MODEL NUMBER	CABLE LENGTH	CONNECTOR
LPS88213NT-61SMAM	61 cm (24 in)	SMA- male
LPS88213NT-61RTNM	61 cm (24 in)	RTNC- male

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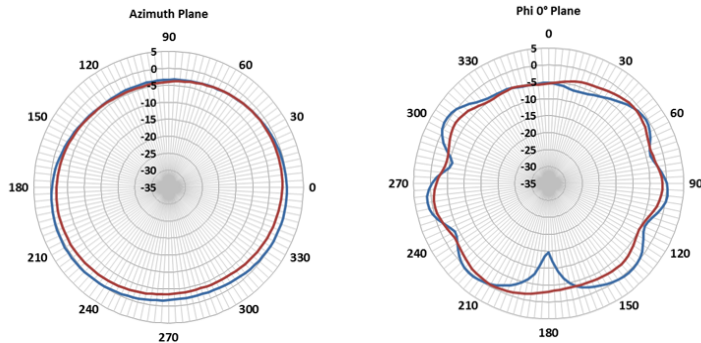
AZIMUTH PATTERNS

ELEVATION PATTERNS

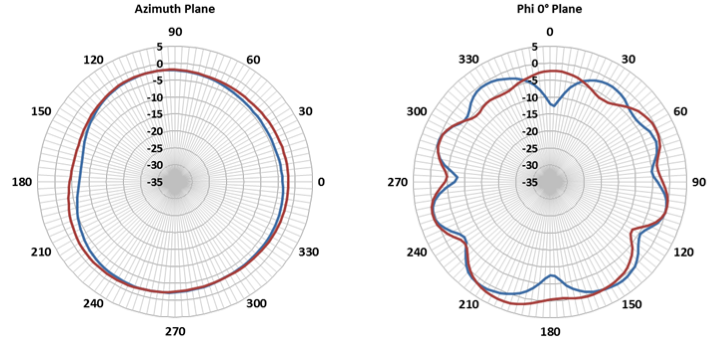
AZIMUTH PATTERNS

ELEVATION PATTERNS

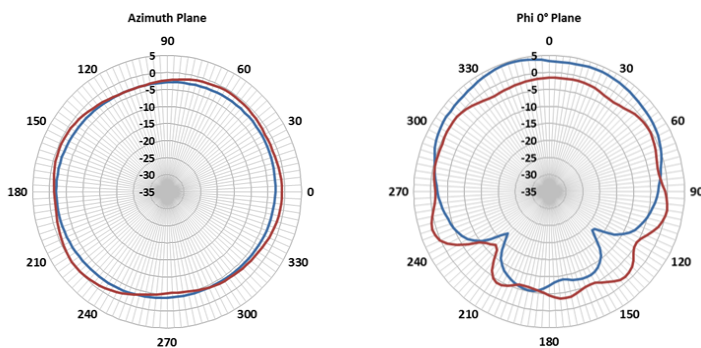
880 MHz Radiation Pattern



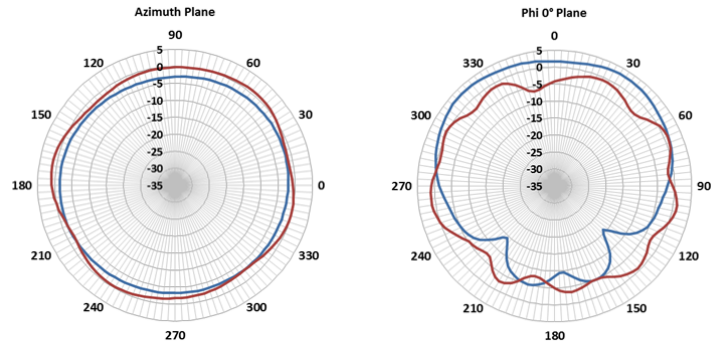
960 MHz Radiation Pattern



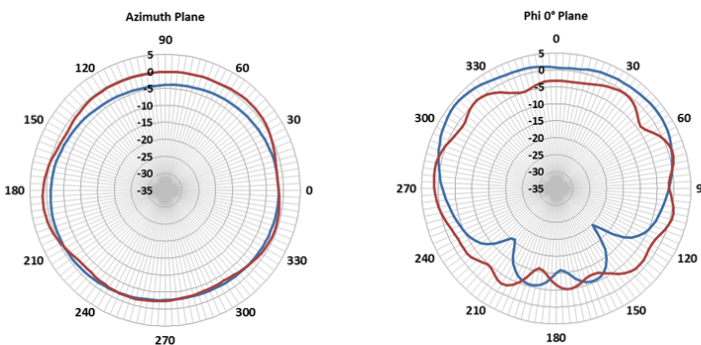
1710 MHz Radiation Pattern



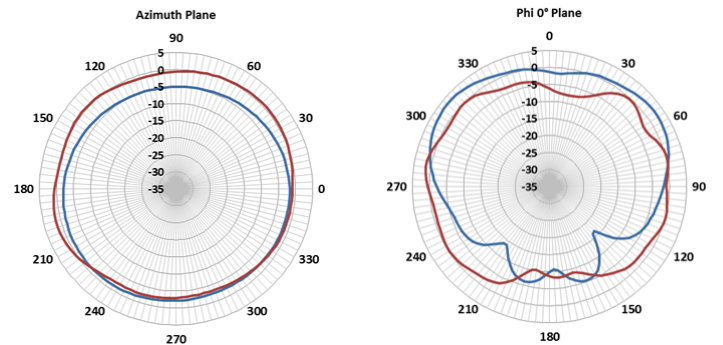
1850 MHz Radiation Pattern



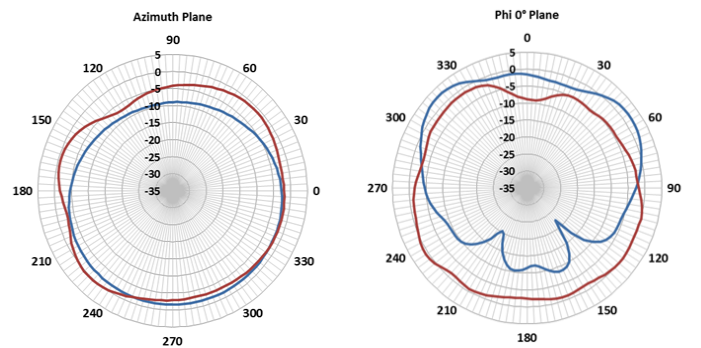
1910 MHz Radiation Pattern



1990 MHz Radiation Pattern



2170 MHz Radiation Pattern



— Antenna on Metal Housing
— Antenna on Plastic Housing

ANT-DS-LPS88213NT_0515

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