



## VLQ24593xN4N

### Vehicular 4-Port MIMO Antenna 2400-2500 MHz/4900-5925 MHz

The Laird vehicular four-port MIMO Wi-Fi disk puck antenna covers the 2400-2500 MHz/ 4900-5925 MHz bands. The VLQ24593xN4N is configured with four-port, dual-band elements.

The four Wi-Fi ports have RP-SMA male cable plug connectors. The housing incorporates a low-profile, rugged design that meets IP67 standards. The antenna also features high impact, UV-resistant polycarbonate plastic available in black or white.

#### ELECTRICAL SPECIFICATIONS

Number of Ports	4-ports (Wi-Fi)	
	Operating Frequency (MHz)	2400-2500
VSWR - Avg	< 1.4:1	< 1.4:1
VSWR - Max	< 2.0:1	< 2.0:1
Gain Horizon 30° - Max (dBi)	N/A	3.5
Port-to-Port Isolation **, Max (dB)	20	26
Typical Port-to-Port Isolation ** (dB)	2400-2500 MHz	4900-5925 MHz
Port 1-to-Port 2	> 23	> 28
Port 1-to-Port 3	> 20	> 26
Port 1-to-Port 4	> 20	> 26
Port 2-to-Port 3	> 25	> 26
Port 2-to-Port 4	> 21	> 26
Port 3-to-Port 4	> 21	> 28
Nominal Impedance (Ohms)	50 Ω	
Max Power per port - Ambient 25°C (W)	10	
Polarization	Vertical Linear	
Azimuth Beam Width	360o, Omnidirectional	

\*Measure on 30.5 cm (1 ft) diameter ground plane

\*\* Measured with 518 cm (17 ft) of cable

#### MECHANICAL SPECIFICATIONS

Dimensions, mm (")	127 x 38.5 (5.0 x 1.52)
Weight, kg (lbs)	Approximately 0.91 (2.01)
Cable Type- Exposed Length, meter (ft)	LMR*-195 or equivalent- 5.18 (17)
Radome Material	PC, UL94 - V0 Rating, UV Stable

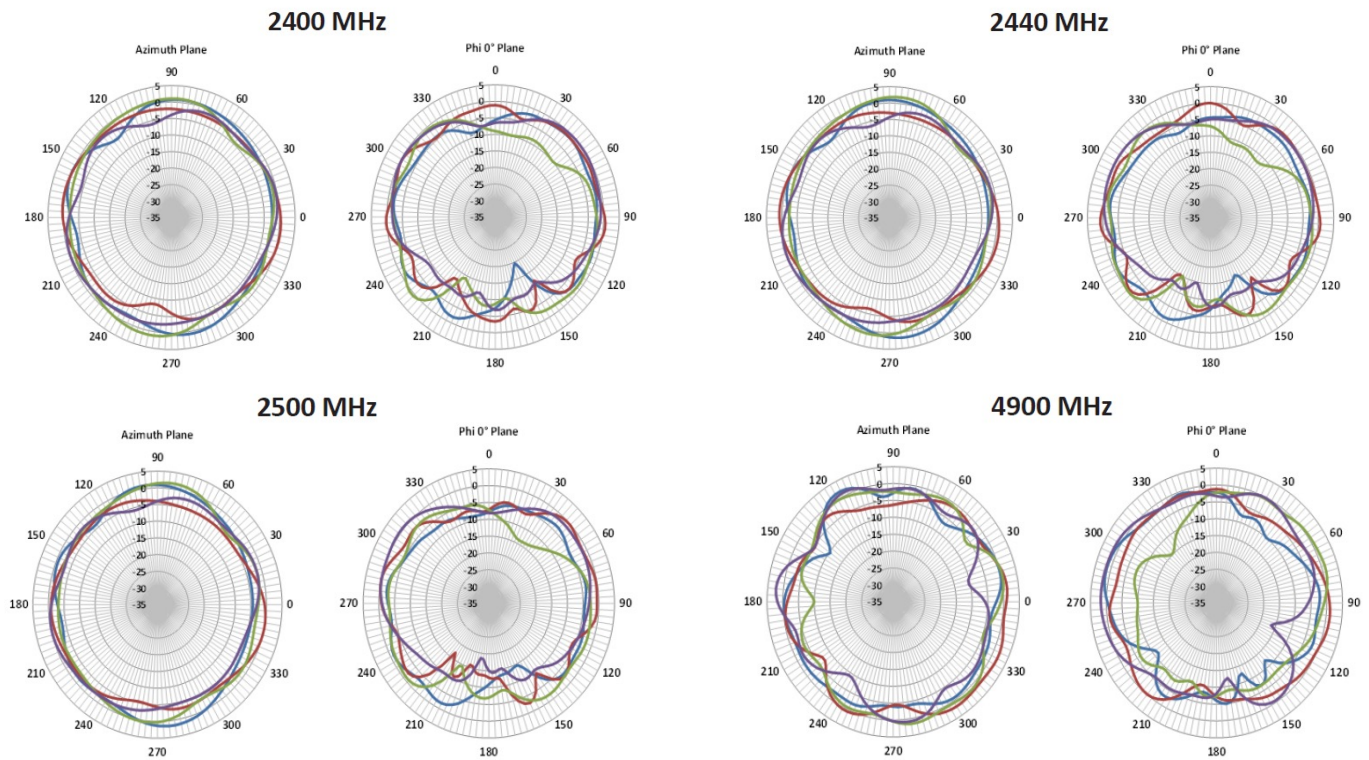
## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature (°C)	-35°C to +75°C (-31°F to +167°F)
Storage Temperature (°C)	-35°C to +80°C (-31°F to +176°F)
IP Dust & Water Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

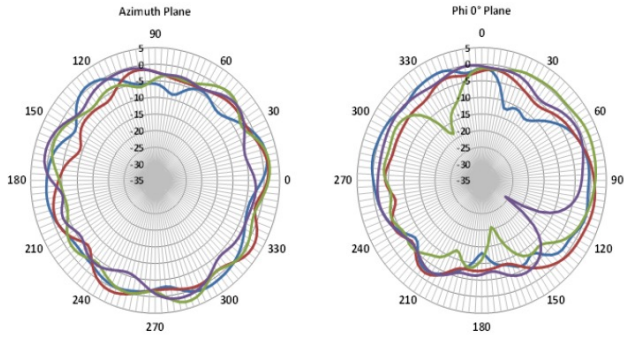
## CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	COLOR
VLQ24593BN4N-518B	518 cm (17 ft.)	4x- RP-SMA male	Black
VLQ24593WN4N-518B	518 cm (17 ft.)	4x- RP-SMA male	White
VLQ24593BN4N-213G	213 cm (7 ft.)	4x- SMA male	Black
VLQ24593WN4N-213G	213 cm (7 ft.)	4x -SMA male	White

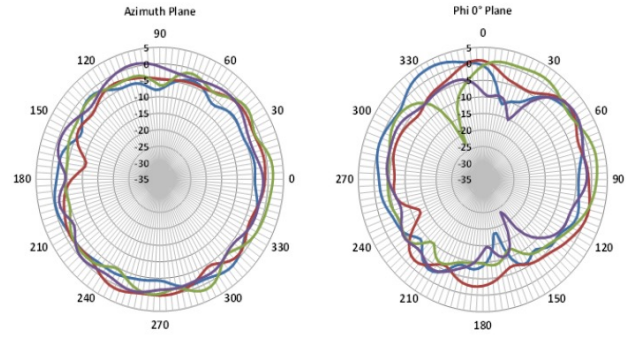
## RADIATION PATTERNS



## 5400 MHz



## 5925 MHz



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