



## VLQ24593xN4N

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

The VLQ24593xN4N vehicular four-port MIMO Wi-Fi disk/puck antenna covers the 2400-2500 MHz/ 4900-5925 MHz bands and 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)	
	2400-2500	4900-5925
Operating Frequency (MHz)	2400-2500	4900-5925
Peak Gain* (dBi)	2.2	3.5
Max Gain +/- 30° Above Horizon (dBi)	N/A	3.5
VSWR** Typical	< 1.4:1	< 1.4:1
VSWR** Max	< 2.0:1	< 2.0:1
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	360°, Omnidirectional	

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

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

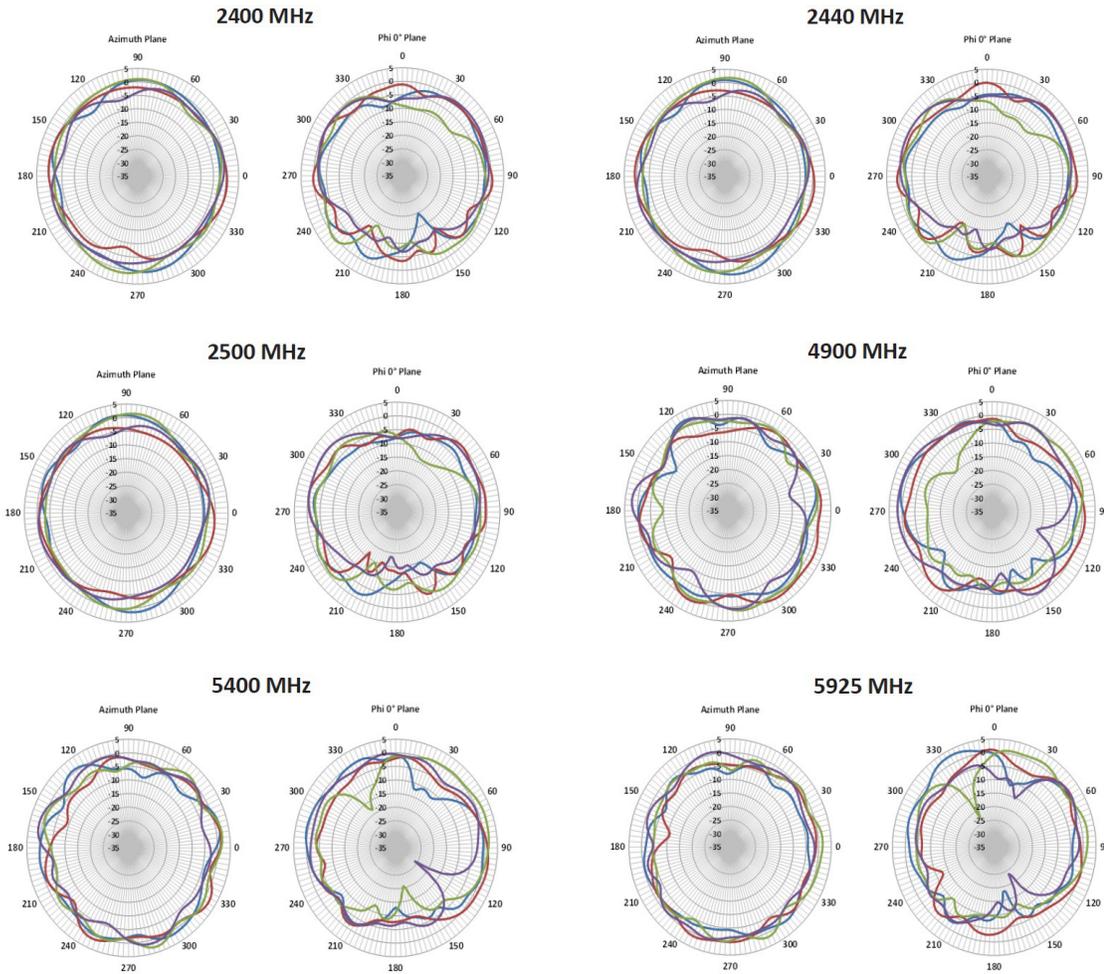
MECHANICAL SPECIFICATIONS	
Dimensions, mm (")	127 x 38.5 (5.0 x 1.52)
Weight, kg (lbs)	Approximately 0.91 (2.01)
Cable Type- Exposed Length, meter (ft)	LMR <sup>®</sup> -195 or equivalent- 5.18 (17)
Radome Material	PC, UL94 - V0 Rating, UV Stable

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



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