



## 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*-195 or equivalent- 5.18 (17)
Radome Material	PC, UL94 - V0 Rating, UV Stable

## ENVIRONMENTAL SPECIFICATIONS

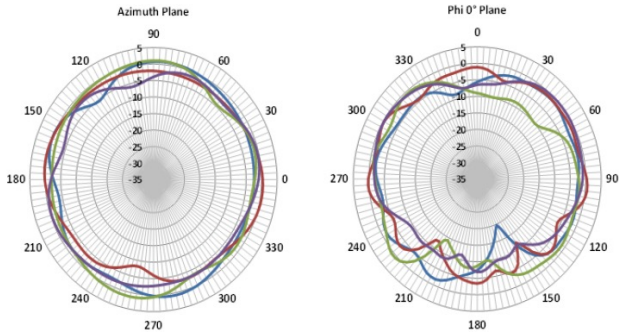
Operating Temperature (°C)	-35°C to +75°C (-31°F to +167°F)
Storage Temperature (°C)	-35°C to +80°C (-31°F to +176°F)
IP Dust & Water Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

## CONFIGURATION

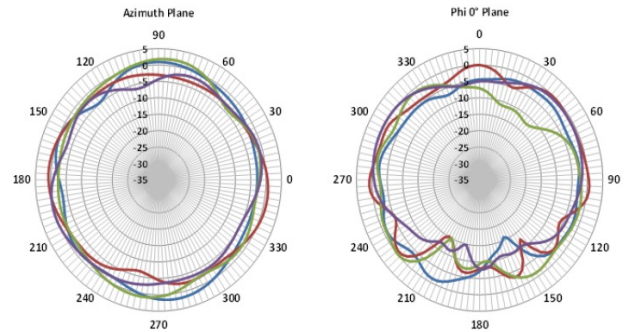
PART NUMBER	CABLE LENGTH	CONNECTOR	COLOR
VLQ24593BN4N-518B	518 cm (17 ft.)	4x- RP-SMA male	Black
VLQ24593WN4N-518B	518 cm (17 ft.)	4x- RP-SMA male	White
VLQ24593BN4N-213G	213 cm (7 ft.)	4x- SMA male	Black
VLQ24593WN4N-213G	213 cm (7 ft.)	4x -SMA male	White

# RADIATION PATTERNS

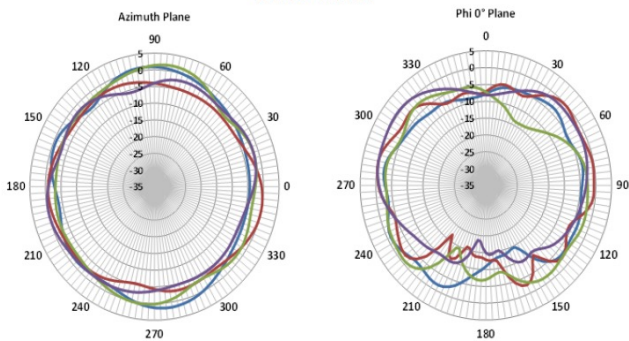
2400 MHz



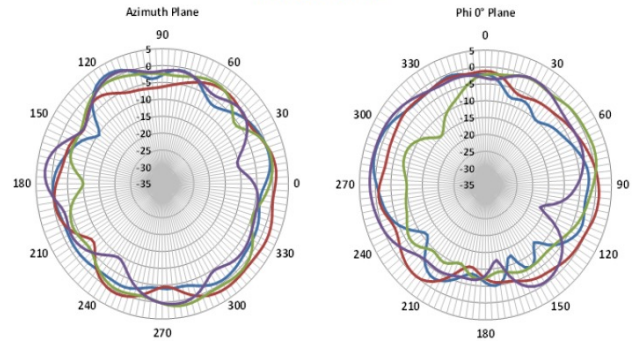
2440 MHz



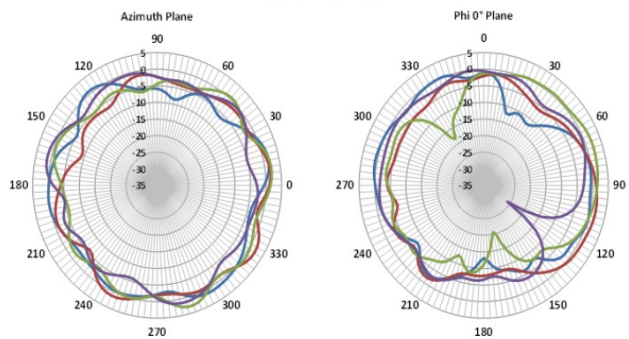
2500 MHz



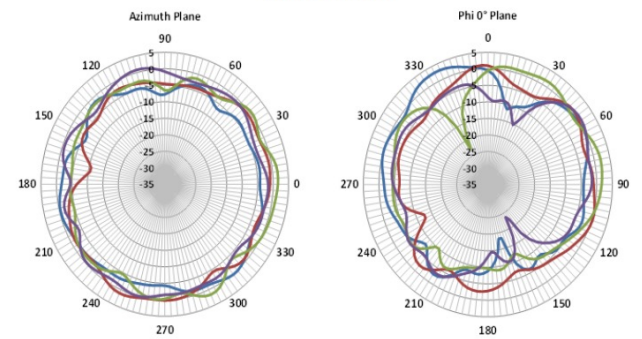
4900 MHz



5400 MHz



5925 MHz



## te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity 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 TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2023 TE Connectivity. All Rights Reserved.

03/23 Original

## TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015