

Smart Technology. Delivered.

Vehicular 4-Port MIMO Antenna

VLQ24593xN4N



2400-2500 MHz / 4900-5925 MHz

The Laird vehicular 4-port MIMO Wi-Fi disk puck antenna covers the 2400-2500 MHz / 4900-5925 MHz bands. The VLQ24593xN4N is configured with 4-port, dual-band elements.

The four (4) WiFi 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.

SPECIFICATIONS

PARAMETER	PERFORMANCE		
Model Number VLQ24593BN	4N-518B (Black) VLQ24593WN4N-518B (White)		
No. of Ports	4-ports (WiFi)		
Frequency Bands (MHz)	2400-2500 MHz	4900-5925 MHz	
Peak Gain * dBi	2.2	3.5	
Max Gain +/- 30° above horizon	N/A	3.5	
VSWR** Typical	< 1.4:1	< 1.4:1	
VSWR** Max	< 2.0:1	< 2.0:1	
Typical Port-to-Port Isolation **	2400-2500 MH	z 4900-5925 MHz	
Port 1-to-Port 2	> 23 dB	> 28 dB	
Port 1-to-Port 3	> 20 dB	> 26 dB	
Port 1-to-Port 4	> 20 dB	> 26 dB	
Port 2-to-Port 3	> 25 dB	> 26 dB	
Port 2-to-Port 4	> 21 dB	> 26 dB	
Port 3-to-Port 4	> 21 dB	> 28 dB	
Port-to-Port Isolation **, Max	> 20 dB	> 26 dB	
Nominal Impedance	50 Ω		
Polarization	Vertical Linear		
Azimuth Beam Width	Omnidirectional		
Input Power, Max	10 Watt per port (ambient temp. of 25°C / 77°F)		
Operating Temperature	-35°C to +75°C (-31°F to +167°F)		
Storage Temperature	-35°C to +80°C (-31°F to +176°F)		
Dimensions (dia. x hgt.)	127 mm x 38.5 mm (5.0" x 1.52")		
Weight	Approximately 0.91 kg (2.01 lbs)		
Connector	4 x RP-SMA-Male Cable Plug		
Cable (exposed length)	LMR195M- 518.2 cm (17 ft)		
Radome / Baseplate Material	PC, UL94 - V0 Rating, UV Stable		
Material Compliance	ROHS compliant		
IP Dust & Water Ingress Rating	IP67		

^{*} Measured on 1 ft. (30.48 cm) diameter ground plane

PART NUMBERS

PART NUMBER		
VLQ24593BN4N-518B 4-Ports WiFi	4x RP-SMA Male	(Black)
VLQ24593WN4N-518B 4-Ports WiFi	4x RP-SMA Male	(White)

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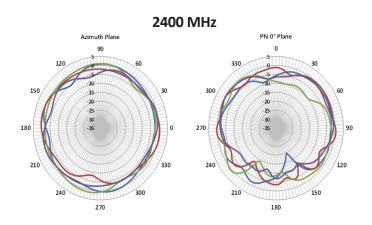
^{**} Measured with 17 ft. (518 cm) cable

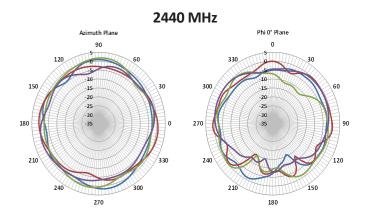


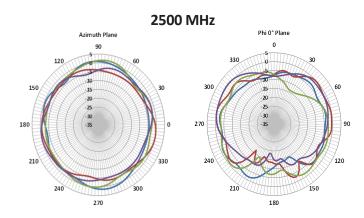
Vehicular 4-Port MIMO Antenna

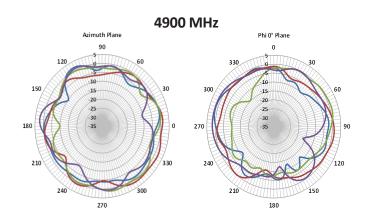
VLQ24593xN4N

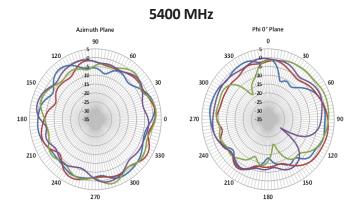
RADIATION PATTERNS

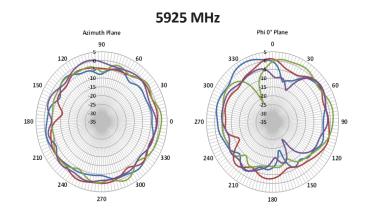












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