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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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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	VLQ24593BN4N-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 MHz	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

** Measured with 17 ft. (518 cm) cable

PART NUMBERS

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

Americas: +1.847 839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

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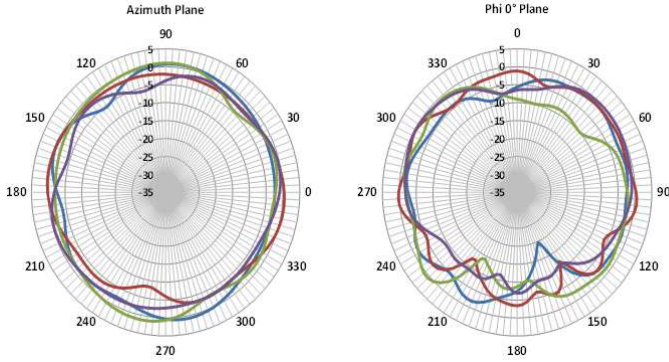


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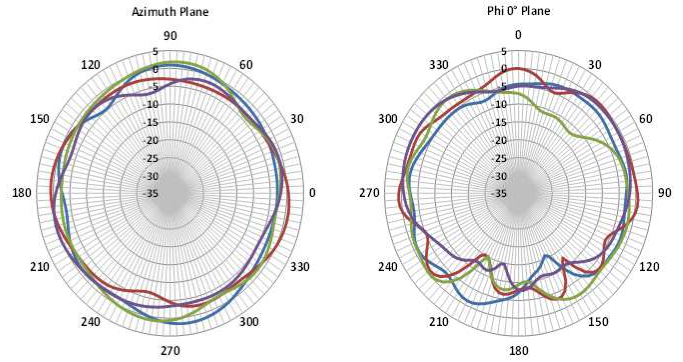
Vehicular 4-Port MIMO Antenna VLQ24593xN4N

RADIATION PATTERNS

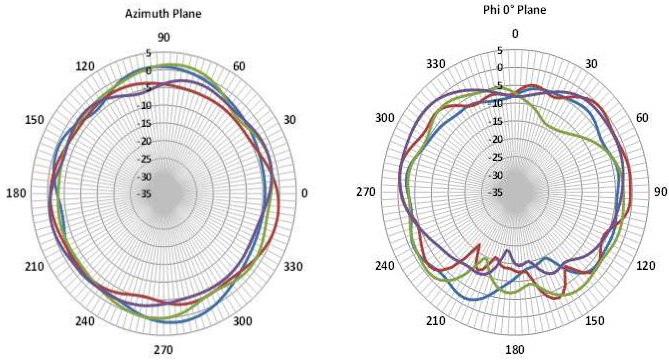
2400 MHz



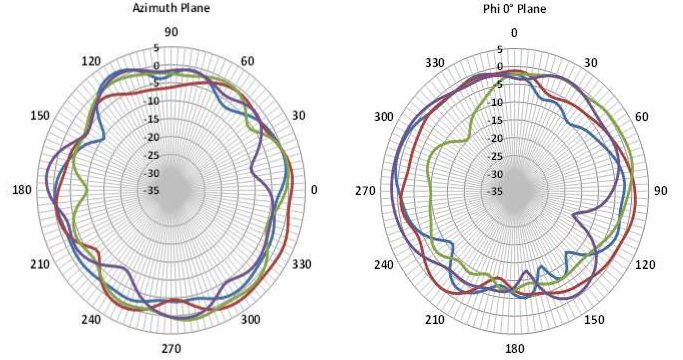
2440 MHz



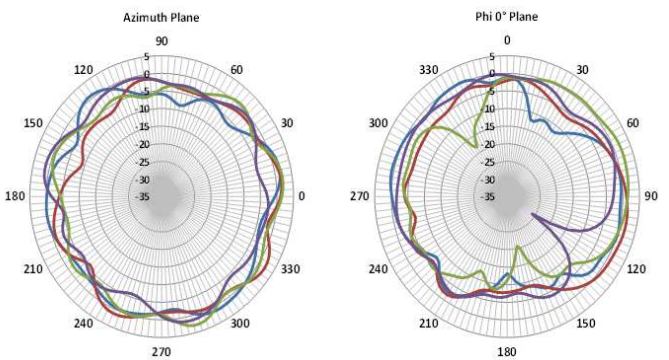
2500 MHz



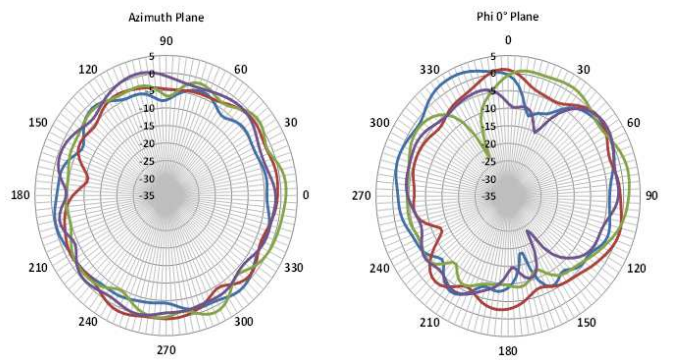
4900 MHz



5400 MHz



5925 MHz



ANT-DS-VLQ24593xN4N 0915

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