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# Vehicular 3-Port MIMO Antenna VLT69273x2NG



## 698-960 MHz / 1710-2700 MHz MIMO ANTENNA

The Laird vehicular 3-port MIMO antenna covers the 698-960 / 1710-2700 MHz, as well as GPS (1575.42 MHz) frequency ranges. Configured with 2-port, dual-band elements in addition to 1-port with integrated GPS.

Connector options include SMA male connectors for 3G/4G LTE and GPS ports with an RSMA male connector for the WiFi port. 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	VLT69273B2NG-518A (Black)	VLT69273W2NG-518A (White)
No. of Ports	3 ( 2-ports 3G/4G LTE, 1-port GPS )	
Frequency Bands, ports 1 & 2	698-960 MHz	1710-2700 MHz
Peak Gain * dBi	2.6 dBi	4.7 dBi
Port-to-Port Isolation *	> 15dB	> 20 dB
VSWR* Typical	< 1.8:1	
VSWR * Max	< 2.0:1	
Nominal Impedance	50 Ohm	
Polarization	Vertical Linear	
Azimuth Beam Width	Omnidirectional	
Input Power, Max	50 Watt (ambient temp. of 25° C/77° F)	
Operating Temperature	-30°C to +70°C (-22 °F to +158°F)	
Dimensions (dia. x hgt)	132 mm x 75 mm (5.2" x 2.9")	
Weight	0.74 kg (1.63 lb)	
RF Connector	SMA-Male (3G/4G ports)	
Cable (exposed length)	LMR195M- 518.2 cm (17 ft)	
Radome / Baseplate Material	PC, UL94 - V0 Rating, UV Stable (Black & White)	
Material Compliance	ROHS compliant	
IP Dust & Water Ingress Rating	IP67	

\*Measured on 304.8 mm (1 ft.) diameter ground plane

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Laird 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 Laird will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.





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### GPS ANTENNA SPECIFICATIONS

PARAMETER		PERFORMANCE		
Frequency Band, Port 3		1575.42 MHz (GPS L1)		
Band Width		6 MHz (Typical)		
Amplifier Gain		27 dB ± 3 dBc		
Nominal Impedance		50 Ohm		
Output VSWR		< 1.5:1		
DC Voltage		2.7 - 12 Vdc		
DC Current		20 mA (Nominal); 30 mA ( -40°C - +85°C)		
Out-of-Band Signal Rejection		> 40 dB rejection @ ± 50 MHz from center frequency		
Intermodulation@ CW Mode (-40°C - +85°C)				
		Int1	Int2	IM3
Power, dBm	-10(1842.8 MHz)	-10(2110 MHz)	-100(1575.6 MHz)	
Power, dBm	-10(829.58 MHz)	-10(2405 MHz)	-100(1575.42 MHz)	
Power, dBm	-10(755.42 MHz)	-10(820 MHz)	-100(1575.42 MHz)	
Input 1 dB Compression @ 750 MHz, 2000 MHz & 3500 MHz		> 10 dBm (-40°C - +85°C)		
RF Connector		SMA-Male		
Cable (exposed length)		RG174-518.2 cm (17ft)		

### PART NUMBERS

PART NUMBER	
VLT69273B2NG-518A	2-Ports 4G/LTE, 1-Port GPS: SMA Male(Black)
VLT69273W2NG-518A	2-Ports 4G/LTE, 1-Port GPS: SMA Male (White)

ANT-DS-VLT69273 1217

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