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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)	
	3G/4G Port 1	3G/4G Port 2
Frequency Bands (MHz)	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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GPS ANTENNA SPECIFICATIONS

PARAMETER		PERFORMANCE		
Frequency Band		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)

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