



VEHICULAR 3-PORT MULTIBANDANTENNA VLT69273X11G

698-960 / 1710-2700 / 2300-2700 / 4900-6000 MHZ + GPS ANTENNA

The Laird vehicular 3-port multiband antenna covers the 698-960/1710-2700 MHz, 2300-2700/ 4900-6000 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	VLT69273B11G-518A (Black)		VLT69273W11G-518A (White)	
No. of Ports	3 (1 port 3G/4G LTE, 1-port WiFi, 1-port GPS)			
	3G/4G Port		WiFi Port	
Frequency Bands (MHz)	698-960 MHz	1710-2700 MHz	2300-2700 MHz	4900-6000 MHz
Peak Gain * dBi	2.6	4.7	4.9	6.0
Max Gain +/- 30 above horizon	N/A	N/A	N/A	5.7
VSWR* Typical	< 1.9:1	< 1.6:1	< 1.6:1	< 1.6:1
VSWR * Max	< 2.0:1			
Port-to-Port Isolation	> 22 dB			
Nominal Impedance	50 Ohm			
Polarization	Vertical Linear			
Azimuth Beam Width	Omnidirectional			

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

SPECIFICATIONS

PARAMETER	PERFORMANCE
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 port) RSMA-Male (WiFi port)
Cable (exposed length)	LMR [®] -195 or equivalent- 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 1 ft. (30.48 cm) diameter ground plane

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 NUMBER

VLT69273B11G-518A	1-Port 4G/LTE, 1-Port GPS: SMA Male; 1 Port WiFi:RSMA Male(Black)
VLT69273W11G-518A	1-Port 4G/LTE, 1-Port GPS: SMA Male; 1 Port WiFi:RSMA Male(White)

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