

SPECIFICATIONS

MODEL	VHP69273B22G (Blk) / VHP69273W22G (Wht)
Frequency	698MHz-960MHz; 1710MHz-2700 MHz (LTE/4G) 2300MHz-2700MHz; 4900MHz-5900MHz (WIFI)
Gain (dBi)	LTE/4G 3.0 (typical), 4.1 (max) @ 698-806 MHz 3.3 (typical), 4.1 (max) @ 824-894 MHz 3.1 (typical), 3.3 (max) @ 880-960 MHz 4.0 (typical), 4.7 (max) @ 1710-1880 MHz 4.8 (typical), 5.4 (max) @ 1850-1990 MHz 5.1 (typical), 5.8 (max) @ 1910-2170 MHz 4.9 (typical), 5.6 (max) @ 2300-2500 MHz 5.4 (typical), 5.9 (max) @ 2500-2700 MHz WIFI 3.2 (typical), 4.3 (max) @ 2300-2400 MHz 5.1 (typical), 5.8 (max) @ 2400-2500 MHz 5.5 (typical), 6.2 (max) @ 2500-2700 MHz 5.4 (typical), 6.5 (max) @ 4900-5900 MHz
Port to Port Isolation	>14 dB (LTE1-to-LTE2) >18 dB (LTE1-to-WIFI1) >19 dB (LTE1-to-WIFI2) >19 dB (LTE2-to-WIFI1) >18 dB (LTE2-to-WIFI2) >20 dB (WIFI1-to-WIFI2)
Nominal Impedance	50 Ohms
Polarization	Linear, Omnidirectional
VSWR	2.0:1 max across the bands
Power Input (Max.)	50 Watts (ambient temp of 25°C/ 77°F)
Operating Temperature Range	-30°C ~ +70°C (-22°F ~ +158°F)
Cable	Coax Cable LMR195M
Connector	SMA-male (LTE/4G), RPSMA-male (WIFI)
Exposed Cable length	5.1816M (17ft)
Weight	Approximately 1.16kg (2.56lbs)
Mounting	Surface Mount
Radome	PC, UL94 V-0, UV Stable (Black/ White)
Dimensions	Diameter Ø132mm (Ø 5.197") Height 87mm (3.425")
RoHS	Compliant

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

Warranty and Liability

Laird warrants to the original purchaser that antenna products will remain free from defects in materials and workmanship for a period of (5) years from the purchase date. If any such defect is discovered within the warranty period, Laird will at its sole option, repair or replace the Product free of charge upon its return to the factory. This warranty applies only if the Product is used in a normal fashion, and is void if the Product is abused, disassembled, tampered with, used unreasonably, or fails as a result of normal wear. Furthermore, this warranty applies only to defects, which occur where the proper Product is selected as recommended by Laird and is used in the fashion recommended by Laird for the defective Product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IS LIMITED TO A PERIOD OF (5) YEARS FROM THE DATE OF ORIGINAL PURCHASE. LAIRD IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. ANY WARRANTY EXTENDED HEREIN SHALL BE LIMITED TO THE PRICE PAID TO LAIRD FOR THE DEFECTIVE PRODUCT. WHERE STATE OR LOCAL LAW GOVERNS THE PERIOD OF WARRANTY, SUCH PERIOD SHALL CONTROL.

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698MHz-960MHz/ 1710MHz-2700 MHz (LTE/4G)
2300MHz-2700MHz/ 4900MHz-5900MHz (WIFI)
Disk Puck 5-Port LTE/ 4G-WIFI-GPS Antenna

ASSEMBLY AND INSTALLATION INSTRUCTIONS



Patent Pending

Please read all instruction carefully before attempting to install and use this product.

SAFETY

The VHP69273 and all associated equipment should be installed in accordance with all applicable local and national electrical code guidelines to ensure safe operation.

MOUNTING

A threaded post on the back of the antenna and a supplied mounting nut are the primary mounting method when access is available to both sides of the mounting surface, such as a ceiling of a truck, meter, vending machine and etc. Mark the desired mounting location on the tile and cut a Ø20 mm (0.8") hole for threaded post. Feed the cables through the hole and secure the antenna with the mounting nut. The included rubber locking gasket should only be used with the mounting nut when mounting to a hard surface (see Figure 1).

PRECAUTION

The antenna should be mounted on the desired location before connecting the cable. This is to ensure that the cable is not twisted or damage during the mounting of the antenna.

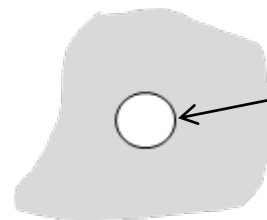


Figure 1:
Hole Diameter, Ø 20mm (0.8")
Max Material Thickness 15mm

