

# Multiband Embedded GPS: High Rejection

## Model Number HZG3



The HZG3 is an active GPS/Glonass antenna with a 16.5dB LNA. The Antenna includes a filter which provides high out of band rejection to prevent out of band interference and desense of the LNA. The additional filtering makes the HZG3 ideal for close co-location to Cellular, LoRA, and WIFI systems. The compact size and LNA gain, balance size, weight and power usage. This makes the HZG3 ideal for use with modern GPS receivers. Custom Cable Lengths and Connector options available.

Electrical Specifications	
Frequency Band	1575-1602MHz GPS/GNSS L1 (1575.42 MHz) Galileo E1 (1575.42 MHz) BeiDou B1 (1575.42 MHz) GLONASS G1 (1602 MHz)
Gain	-1dBic passive LNA: 16.5dBI
Pattern/Polarization	+/- 60degrees Hemispherical / Right Hand Circular Polarized
Return Loss	<-10dB
Ports	1 Active GPS
Connectors	SMA Male
Feed Cable	1 x Black RG-174  <input type="checkbox"/>
Length	39"(1m)



LNA Performance	
Gain	16.5dB (5VDC)
Voltage	1.7-5.2VDC
Current Draw	6mA (5VDC)
Noise Figure	2.4dB (typical @25°C)
Out of Band Rejection	+/-25MHz -35dB +/-35MHz -50dB +/-45MHz -55dB 600-1000MHz: > 60dB 2400-6000MHz: > 60dB

Mechanical/Environmental Specifications	
Element	15x15mm Tuned Ceramic Patch
Mounting	Embedded Mount
Temp Rating (operating/storage)	-40°F to + 149°F (-104C to 65C)
Weight	.15lb(.06kg)
Dimensions	.65"x.65"x.30" (16.5mmx16.5x7.63mm)

