

HY-GLRC04RT

GPS L1/L2 and GLONASS G1/G2 Survey Antenna

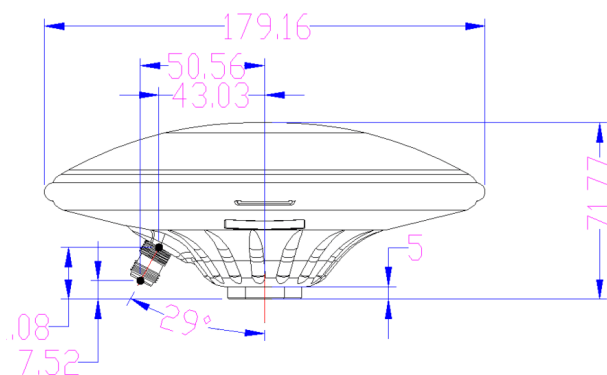
HY-GLRC04RT is a light, compact, survey grade antenna receiving GPS L1/L2 and GLONASS G1/G2 frequencies, ideal for mapping, GIS, surveying, mining, engineering, and construction applications. With its multi-feed point design to ensure the superposition of phase center and geometric center, the HY-GLRC04RT antenna improves measurement accuracy. The HY-GLRC04RT antenna also integrates a low-noise amplifier and filter to block interference, providing reliable operation in harsh electromagnetic environments.



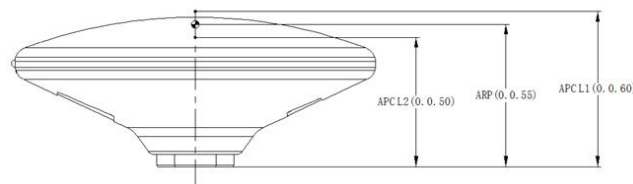
Specifications

Antenna	
Frequency Range	1572 to 1616MHz, 1217 to 1257MHz
Impedance	50 Ohm
Polarization	Right Hand Circular Polarization
Axial Ratio	≤3dB
Antenna Beam	Azimuth: 0° ~ 360°; Pitch Angle: 5° ~ 90°
Voltage Standing Wave Ratio	≤2
Gain of Antenna	≥5dBi
Phase Center Error	≤2mm
Phase Center Height	N/A
Low-noise Amplifier	
LNA Gain	LF (G2+L2) 44 ± 1.5dB HF (G1+L1) 41 ± 1.5dB
Noise Figure	≤2dB
Output Standing Wave Ratio	≤2
Input Standing Wave Ratio	≤2
Gain Flatness	±1.5dB
Output at P1dB Gain Compression Point	≥0dBm
LNA Drain Voltage	3.3-10 VDC
LNA Current Consumption	≤48mA
Delay	<5ns
Mechanical	
Weight	506g
Dimensions	φ179×71.7mm
Connector	TNC-C-K
Mounting Method	5/8-11/H25 (screw-mounted)
Waterproof Grade	IP67
Environment	
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Humidity	40% ~ 95%

Dimensions (mm)



Antenna Reference Point (ARP) and Antenna Phase Center (APC) Numbers



* Specifications subject to change without notice.