FRF-277

Features

- Passive anti-jam antenna operates in the L1, L2, and L5 GPS bands, tailored to reject near-horizon interference
- Low-profile antenna with a fixed upper-hemispherical radiation pattern
- Ideal for a retrofit installation or for SWaP-C constrained platforms and applications
- Fully environmentally sealed and tested
- High-temperature UV-stabilized radome
- Grounded internally for ESD safe handling

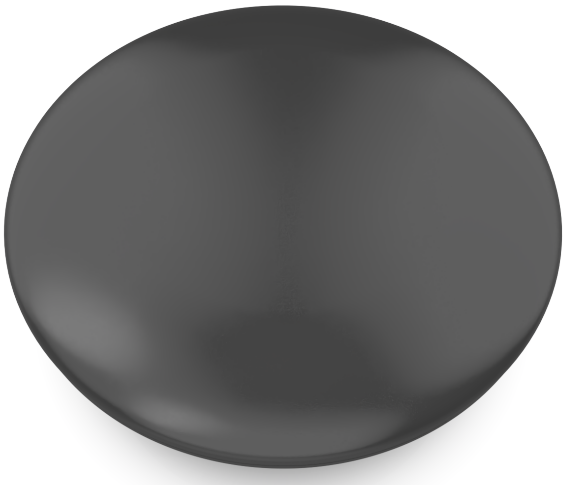
Applications

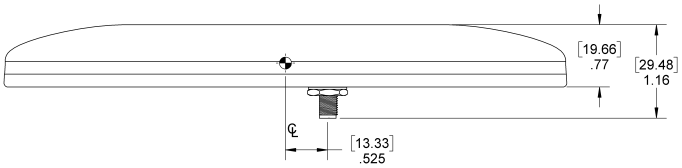
- Ground mobile units
- Airborne assets, including UAS
- Fixed applications

Performance Summary

Size	7.1″ × 1.1″
Weight	< 0.6 lb
Power	Passive

Frequencies	1176, 1227, and 1575 MHz
Bandwidth	M-code compatible
Gain	+6 dBiC Typical
Anti-jam capability	20 dB Horizon Anti-Jam Improvement
Operational Temperature	-40°C to +70°C
Connector	SMA
Mounting	Four equally spaced M4×0.7 holes on a Ø2.8″ bolt center





The FRF-277 provides anti-jam capability from a passive, single-port antenna

General Description

The FRF-277 passive antenna features anti-jam capability that operates in the L1, L2, and L5 GPS bands to reject near-horizon interference. The very low-profile design has a fixed upper-hemispherical radiation pattern, making it ideal for retrofit installations or platforms with size-weight-and-power (SWaP) constraints; no expensive receiver hardware upgrades are required. The antenna is fully environmentally sealed and tested with a high-temperature UV-stabilized radome for durability and longevity in harsh outdoor environments. Additionally, internal grounding provides ESD safe handling capabilities. This antenna is suitable for use in ground mobile units, airborne assets such as unmanned aerial systems (UAS), and fixed applications.

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