METRO-G

KEY FEATURES

- Precise control over output signal level
- High Frequency Selectivity - Passes GPS, GLONASS & GALILEO frequencies while rejecting other out-of-band signals.
- Continuous Built-In-Testing (BIT)
- Automatic Oscillation Detection
- Perfect for aircraft hangars, manufacturing test cells, R&D facilities, any automated test environment or an anechoic chamber
- Use for any GNSS retransmission application

OPTIONS

- AC Power Only
- L1 GNSS vs. L1/L2 GNSS Filtering
- Multiple Connector Types
- Power ON/OFF

METRO-G

INTRODUCTION

The METRO-G is a GNSS smart amplifier, designed for commercial and public sectors. When used in conjunction with an active GPS/GLONASS receive antenna, it will pass GPS+GLONASS signals inside a building, hangar or any structure where signal is not accessible. It can be used in an automated test environment or in a shielded room that needs GNSS signal.

METRO-G has the unique benefit of allowing selection for the power control between signals. A user can easily decide which signal output the METRO-G will use to control signal power: GPS+GLONASS, GLONASS only or GPS only. This reduces the need for multiple antennas, receive devices and multiple antenna runs, while lowering maintenance and installation costs.

AUTOMATIC SIGNAL LEVEL CONTROL

The METRO-G employs an automatic control to maintain the set output signal level, regardless of the uncertain loss or gain in the receive antenna cable network. Derived from high performance systems for military applications, this device allows precise determination over effective radiated power (ERP) levels, regardless of the uncertain loss or gain in the receive antenna cable network. It will automatically condition the signal and prevent changes in performance.

BUILT-IN TROUBLESHOOTING

The METRO-G will identify and isolate the following:

- Oscillation condition
- High gain
- Low gain
- Short/Open circuit
- Internal component failure
- Less than four satellites
- No satellites with adequate signal

(call for complete list of conditions)

METRO-G

METRO-G OUTPUT PORTS

» Number of ports 1

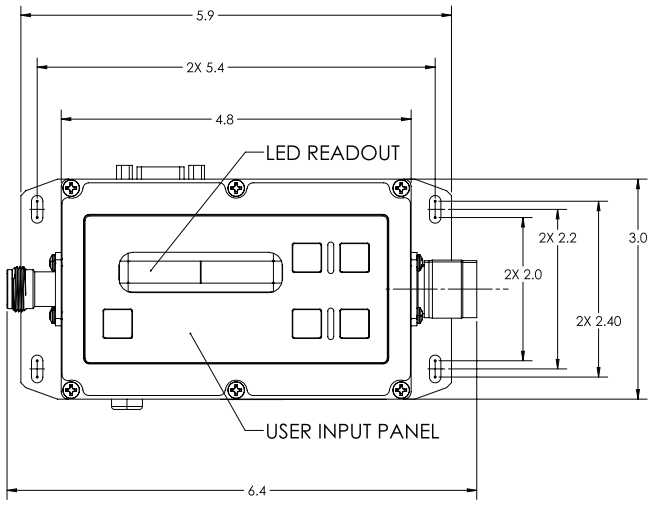
METRO-G ELECTRICAL SPECIFICATIONS

» Input/Output impedance 50Ω
» SWR all ports (typical)
Input: 2:1
Output: 2:1
» Bandwidth
GPS & GLONASS L1 1560-1615 MHz
GPS & GLONASS L1/L2 1170 - 1310 MHz
+ 1560 - 1615 MHz
» Gain (nominal) 33 dB
» Gain Range 0-55dB
» Gain flatness <3 dB
» Noise figure <3 dB
» AC input level 110 VAC
230VAC UK
230VAC European
» DC input level 16 - 28 VDC
» Active Antenna Output
Power Supply Output 6.8V

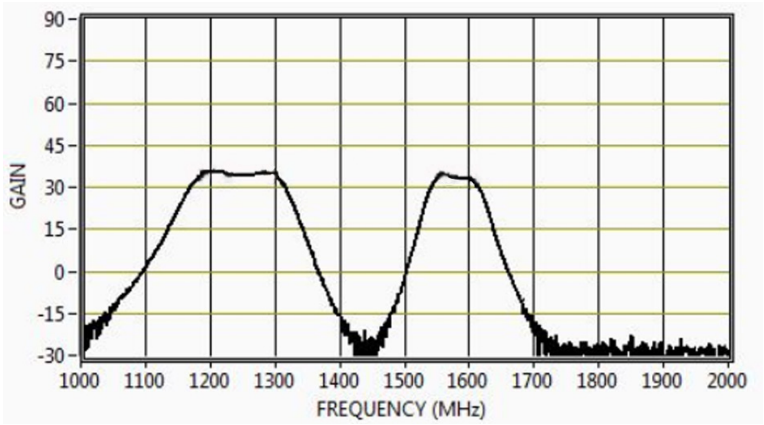
METRO-G PHYSICAL SPECIFICATIONS

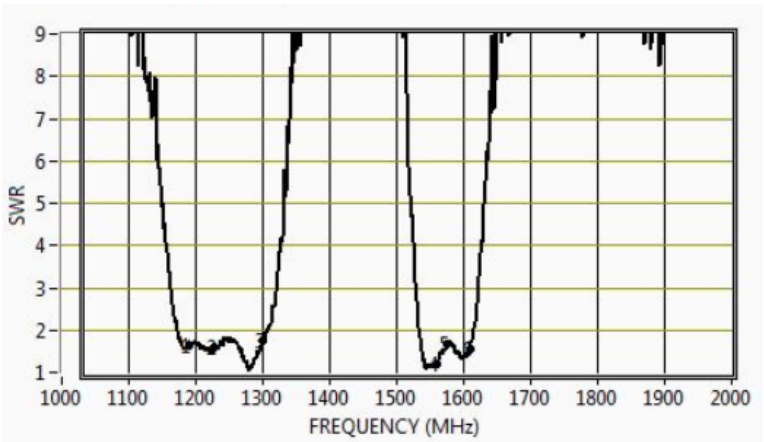
» RF connectors
N (m, f)
SMA (m, f)
TNC (m, f)
» RS232 serial connector DB9(F) DCE
» Weight:
1x1 1.2 lbs (544.3 g)
» Size:
1x1 6.4" x 3.9" x 2.0"
(162.6 mm x 99 mm x 50.8 mm)
» Operating temperature -40 to +85ºC

METRO-G 1X1



L1L2G





CCR Registered
CAGE: 1RTJ5
DUNS: 883995677
NAICS: 334220, 334290, 334511, 541330, 541690

www.gpssource.com