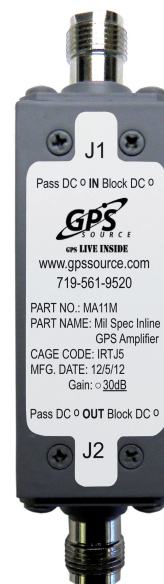


# GPS Military Qualified Amplifier

## When failure is not an option...

The MA11M is a professional, military-grade GPS amplifier used to strengthen the signal and reach of a GPS receiving device. The GPS signal is weak and can be difficult to harness. Strengthening (amplifying) the frequency is one way to hook and hold on to a signal. A GPS amplifier can make the crucial difference between your equipment operating properly or not.

The MA11M will increase the power level of an input signal without otherwise altering the content of the signal. The MA11M will amplify the signal, but its military design means that its operation does not degrade the performance of other equipment or subsystems. When used in conjunction with our Mil Spec antennas, it becomes the perfect solution for an EMI rich environment.



**MA11M**

## Features

- Low noise figure
- Standard Gain of 30 dB
- Excellent Gain Flatness  
Gain | L1 - L2 | < 2 dB
- Designed to pass DC power up to the GPS antenna
- Can operate at different inline voltages
- Passes GPS L1/L2, GLONASS L1/L2, GALILEO L1/L2, Compass
- RoHS & WEEE Compliant

## Benefits

- Improves Signal Reception
- Works well in EMI rich environment
- Built for extreme mission environments
- Waterproof and Hermetically sealed
- Engineered for easy installation and configuration
- Designed, Tested and Manufactured to Military Specifications

## Designed & Tested to the Following:

MIL-STD-810	MIL-STD-704	MIL-STD-1587
MIL-STD-1472	MIL-E-5400	MIL-STD-461
MIL-STD-202	MIL-HDBK-454	MIL-STD-1275B
MIL-STD-883		

## OUTPUT PORTS

- » Number of ports 1

## ELECTRICAL SPECIFICATIONS

- » Input/Output impedance 50Ω
- » SWR
  - Input - OUT Port - 50Ω 2.0:1 max
  - Output - IN Port - 50Ω 2.0:1 max
- » Bandwidth
  - L Band 1 - 1.7 GHz
- » Amplified Gain (typical) 30 dB
- » Gain flatness 2 dB max
- » Noise figure
  - Amplified 3.2 dB max
- » Reverse Isolation
  - OUT -IN 30 dB min.
- » Operating current 65mA max.
- » DC IN 5-7 VDC
- » Device Current 65 mA max
- » Group Delay Flatness 1ns
- » Input IP3 - Gain = 30dB -2dBm
- » Input P1dB - Gain = 30dB -12dBm

## PHYSICAL SPECIFICATIONS

- » RF connectors
  - N (m, f)
  - SMA (m, f)
  - TNC (m, f)
- » Weight 113.4 grams/ 4 oz max
- » Operating temperature -40 to 85°C

## AVAILABLE OPTIONS

- » RF Connectors
- » Port - All ports can pass or block DC

## ORDERING INFORMATION

Contact AuCon GmbH for pricing/availability  
GPS MIL Spec Mini Amplifier

