

## AT11DV Digital Variable Attenuator

### Description:

Ideal for Automated Test Environments (ATE), the AT11DV is a high dynamic range Digital attenuator.

Designed specifically for GPS applications, the AT11DV has provisions for supplying the DC Voltage for the active antenna, including an optional feature for monitoring health of the receive antenna system. The product includes optional features for oscillation detection and prevention, and filtering for GPS L1 & L2 bands.

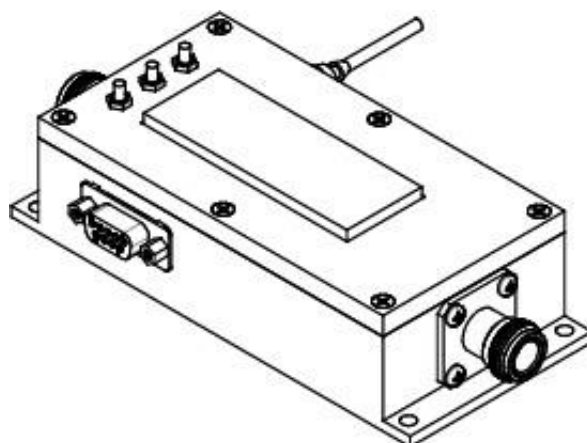
The AT11DV features digital display with user friendly menu enabling easy operation and configuration of the device. With an optional Bluetooth wireless interface also available, the AT11DV may be configured remotely when access to the system is not convenient.

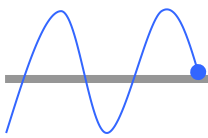


**AT11DV**

### Features:

- 55 dB of attenuation
- Easy to use Display and User Interface
- Responses to GPS L1 & L2, Glonass, Galileo
- Optional Filtered for L1 or L1 / L2
- Optional RS232 interface for ATE
- Optional Oscillation Detections
- Optional Antenna Monitor & Alarm Indication
- Wireless Remote Control via Bluetooth Option





### HF PORTS

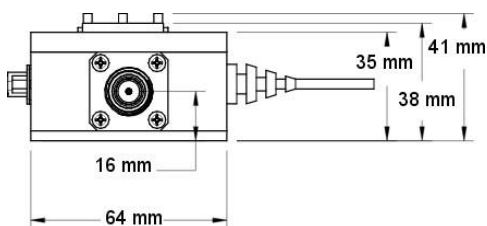
- > Input 1
- > Output 1

### ELECTRICAL SPECIFICATION

- > Input/Output Impedance 50  $\Omega$
- > Bandwidth 1,2 – 1,7 GHz
- > Attenuation Standard (typical) 0 – 55 dB
- > SWR Input / Output 2.0 : 1
- > Attenuation L1 Filtered Opt @ 1575 MHz 0-55 dB typical
- + / - 50 MHz 5 dB min.
- + / - 100 MHz 12 dB min.
- + / - 300 MHz 40 dB min.
- > Attenuation L1 /L2 Filtered Opt @ 1575 MHz as above
- @ 1227 MHz 0-55 dB typical
- + / - 50 MHz -1 dB min.
- + / - 100 MHz 12 dB min.
- + / - 300 MHz 45 dB min.
- > Flatness L1 – L2 , Input – Output 2.5 dB
- > Noise Figure Max. Signal Setting 2.5 dB
- > DC Input Level External Supply 9 – 16 V DC
- Optional DC Input on IN Port 6 – 16 V DC
- >Current Attenuator Current Draw 180 mA
- Range Open Circuit Tresh. 15 – 75 mA
- Range Short Circuit Tresh. 100 – 125 mA
- Antenna Current Draw (9V DC) 70mA

### PHYSICAL SPECIFICATION

- > RF connectors N (m, f)  
SMA (m, f)  
TNC (m, f)
- > Operating Temperature -20 to 65°C
- > Size (W x H x D) 140x64x41 mm



### AVAILABE OPTIONS

- > Power Supply
  - Source Voltage
  - P110 – Transformator
  - P220 – Transformator
  - P240 – UK Transformator
  - PD C – DC w/leads
  - PM – Military Connector (User supplies DC)
  - Output Voltage
  - 5, 7.5, 9, 12, XX (custom output voltage)
- > RF Connectors
- > Antenna Monitor Opt (only ava w/5V DC Outp.)
- > Oscilation Detection Opt
- > Filter Opt None, L1 or L1 / L2
- > RS232 Serial Opt None, Standard RS232 or Bluetooth Wireless Link

