

Navtech Systems

GPS Antenna Splitter NTS-DP2-S



The Navtech Systems GPS diplexer NTS-DP2-S enables two GPS receivers to share a single antenna. Using a combined low noise amplifier and power by-pass circuitry, the GPS antenna will supply amplified GPS signals to one or both receivers connected to the outputs. Antenna power supplied by the GPS receiver is by-passed to the antenna, to enable active antennas to be used as the primary signal source on any GPS installation. One port is dc blocked to accommodate low voltage antennas to be powered by a low voltage antenna feed.

By simply inserting the GPS diplexer in the antenna feeder cable, using standard TNC connectors, the GPS signal is correctly terminated, amplified and split to the respective receiver.

Specifications

- For GPS L1 1575.42MHz & L2 1227.60MHz
- Flatness less than 3.5dB
- Noise figure less than 1.8dB
- 10dB min gain
- 50 ohm impedance on all ports
- Input & Output SWR less than 2.0:1
- Reverse Isolation greater than 49dB
- Single port to pass DC voltage to antenna
- DC input 3.1 to 5V dc
- Current draw less than 7mA
- Phantom antenna load (200R) presented to the DC blocked port

Mechanical Specifications

- Dimensions (approx) Length 28mm x Width 33mm x Height 20mm
- Connections: TNC female input and output
- Operating Temperature: -40 to 75 °C



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