



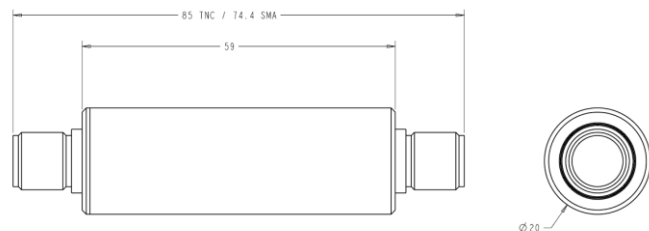
TW126 Mid-Power 1.2 to 1.8 GHz 25dB In-line Amplifier

The TW126 by Tallysman Wireless is a low cost, rugged, waterproof, low noise, low power, 1.2 to 1.8 GHz band, 25dB gain in-line amplifier, specially designed to amplify all GNSS frequency signals, from GPS L2 to GLONASS L1. The TW126 provides for much longer cable runs from antenna to receiver, for applications such as mast-mount, large vehicle and timing systems, without degradation of system sensitivity.

The TW126 passes DC supply from input to output to support centre conductor DC supply to the antenna, therefore not requiring an additional Bias source and a bias-T.



TW126 Dimensions (mm)



Applications

- GPS/GNSS Signal Repeaters
- All GNSS Signals – GPS, GLONASS, Galileo & SBAS
- Commercial, Industrial and Military Telematics Systems
- Wireless and Telecom Timing and Synchronization Applications

Features

- Very low noise
- Wide input voltage 4.75 to 10 VDC
- Cylindrical nickel-plated brass, IP67 compliant housing
- Powered via antenna coax from receiver
- 50 Ohm port impedance
- Available SMA & TNC jack connectors
- RoHS compliant

Benefits

- Improves signal reception
- Enables extended cable runs
- Avoid installation of costly low-loss cable
- Fits in line with antenna cable
- No external DC power supply required
- Easy to install - mounting clamp included



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Specifications

V_{cc} =5.0V, over full bandwidth, T=25 °C

Electrical

- Gain 25 dB +/- 0dB typ.
- Noise Figure 1.5 dB max.
- Bandwidth 1.2 to 1.8 GHz
- Input VSWR 1.5 typ. / 2 max.
- Output VSWR 1.5 typ. / 2 max.
- Reverse Isolation >35 dB
- Output 1dB 10 dB
- Output IP3 20 dBm
- Supply Range voltage 4.75 to 10 VDC
- Supply Current 50 mA typical

Mechanicals & Environmental

- Mechanical Size 2.5" L x 0.787" Dia. (63.5 mm L x 20 mm dia.)
- Connectors SMA Jack or TNC Jack
- Operating Temp. Range -40 to +85 C
- Enclosure Nickel plated brass
- Environmental RoHS and IP67 compliant
- Warranty One year – parts and labour

Ordering Information

- TW126 - 25dB gain Inline Amp with SMA Jack 32-0126-0
- TW126 - 25dB gain Inline Amp with TNC Jack 32-0126-1

Please contact Tallysman Wireless for additional information

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