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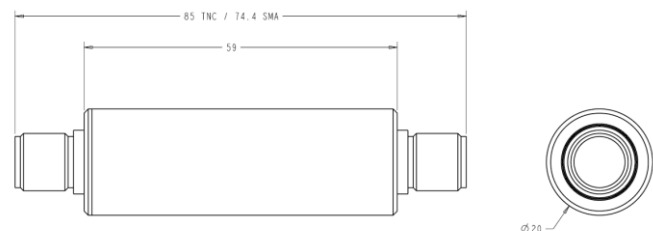
TW125 Low Current / Low Voltage 1.2 to 1.8 GHz 25 dB gain In-line Amplifier

The TW125 by Tallysman Wireless is a low cost, rugged, waterproof, low noise, low current/low voltage, 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 TW125 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.

Its low loading allows for both the antenna and the TW125 in-line amplifier to be powered by the GNSS receiver. The TW125 passes DC supply to the antenna, therefore not requiring additional hardware such as bias-T, power cable and power supply.



TW125 Dimensions (mm)



Applications

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

Features

- Low Current / low voltage
- Very low noise
- Wide input voltage 3 to 10 Volts
- 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} = 3.3V, over full bandwidth, T=25 °C

Electrical

• Nominal Gain	25 dB +/- 0 dB typ.
• Pass Band Ripple	+/- 2 dB
• Impedance	50 Ohms
• 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	+5 dBm
• Supply Range voltage	3 to 10 VDC Nominal
• Supply Current	25 mA typ.

Mechanicals & Environmental

Mechanical Size (body dimensions only)	2.32" L x 0.787" Dia. (59 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

• TW125 - 25dB gain In-Line Amp with SMA Jack	32-0125-0
• TW125 - 25dB gain In-Line Amp with TNC Jack	32-0125-1

Please contact Tallysman Wireless for additional information

Tallysman Wireless Inc

106 Schneider Road, Unit 3
Ottawa ON K2K 1Y2 Canada
Tel 613 591 3131
Fax 613 591 3121
sales@tallysman.com

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