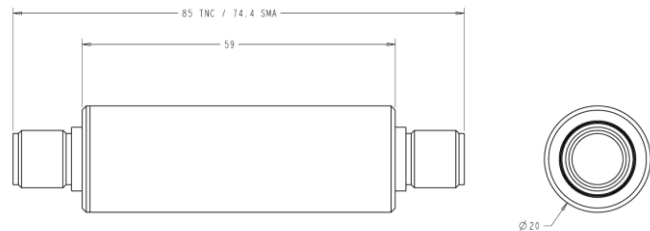




TW125 Low Current / Low Voltage 1.2 to 1.8 GHz 28 dB gain In-line Amplifier

The TW125 is a low cost, rugged, waterproof, low noise, low current/low voltage, 1.2 to 1.8 GHz band, 28dB 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.



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 16 Volts
- Nickel-plated brass, IP67 compliant housing
- Powered via antenna coax from receiver
- 50 Ohm port impedance
- Available SMA, TNC, and N-Type jack connectors
- RoHS and REACH 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

Vcc =3.3V, over full bandwidth, T=25 °C

Electrical

• Nominal Gain	28 dB +.1/-2 dB typ.
• Pass Band Ripple	+/-0.5 dB
• Impedance	50 Ohms
• Noise Figure	2 dB typ.
• Bandwidth	1.2 to 1.8 GHz
• Input VSWR	1.0 typ..
• Output VSWR	1.0 typ.
• Reverse Isolation	>35 dB
• Output P1dB	+12.8 dB min
• Group Delay	0.89ns (@1.4GHz), 0.82ns (@1.6GHz)
• Output IP3	+5 dBm
• Supply Range voltage	3 to 16 VDC Nominal, 12 VDC recommended operating max
• 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, TNC Jack, or N-Type Jack (Max TNC connector Torque 6.1 in-lbs)
Operating Temp. Range	-40 to +85 °C
Enclosure	Nickel-plated brass
Environmental	RoHS, REACH, 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
• TW125 - 25dB gain In-Line Amp with N-Type female	32-0125-14 (premium applies)

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