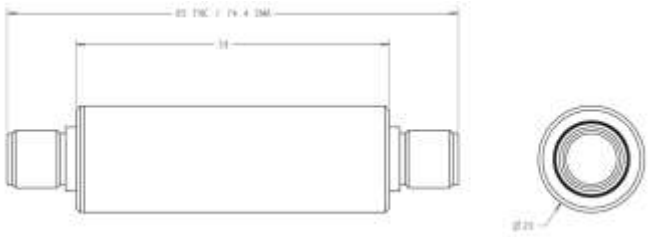
TW125 Low Current / Low Voltage 1.2 to 1.8 GHz 27 dB gain In-line Amplifier

The TW125 has been replaced by an improved performance inline amplifier with a Part Number of TW125B.

All orders for the TW125 will be fulfilled with TW125B's. If at all possible, please change orders with a Part Number of TW125B.

IMPORTANT: Amplifiers are directional and must be installed in the orientation indicated on the product label. (Arrow points away from antenna)



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	27 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	1.3 typ..
• Output VSWR	1.3 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		
Torque Limitations (in. lbs)	**N-type**	**TNC**	**SMA**
	6.5 – 8	**9 - 11**	**3.6 – 4.5**
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 - 27dB gain In-Line Amp with SMA Jack	33-0125-0
• TW125 - 27dB gain In-Line Amp with TNC Jack	33-0125-1
• TW125 - 27dB gain In-Line Amp with N-Type female	33-0125-14 (premium applies)

IF AT ALL POSSIBLE, PLEASE USE THE PART NUMBER OF TW12B.

Tallysman Wireless Inc

36 Steacie Driv
Ottawa ON K2K 2A9 Canada
Tel 613 591 3131 Fax 613 591 3121 sales@tallysman.com

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