

# 32-0125-00 Datasheet

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DiGi Electronics Part Number	32-0125-00-DG
Manufacturer	<a href="#">Tallysman Wireless Inc.</a>
Manufacturer Product Number	32-0125-00
Description	IC AMP GALILEO 1.2GHZ-1.8GHZ SMA
Detailed Description	RF Amplifier IC Galileo, GLONASS, GNSS, GPS, SBAS 1.2GHz ~ 1.8GHz SMA

This model 32-0125-00 is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

32-0125-00

Series:

-

Frequency:

1.2GHz ~ 1.8GHz

Gain:

27dB

RF Type:

Galileo, GLONASS, GNSS, GPS, SBAS

Current - Supply:

25mA

Mounting Type:

Connector Mount

Supplier Device Package:

SMA

Manufacturer:

Tallysman Wireless Inc.

Product Status:

Active

P1dB:

12.8dBm

Noise Figure:

2dB

Voltage - Supply:

3V ~ 16V

Test Frequency:

1.2GHz ~ 1.8GHz

Package / Case:

SMA In-Line Module

Base Product Number:

32-0125

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8543.70.9810

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



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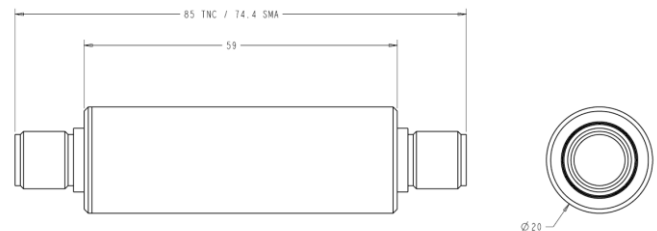
## TW125 Low Current / Low Voltage 1.2 to 1.8 GHz 25 dB gain In-line Amplifier

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

## Specifications

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

### Electrical

• Nominal Gain	25 dB +4/-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

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