

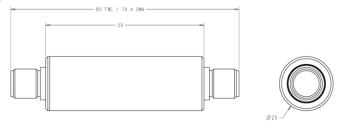
TW141 1200 to 1800 MHz 40 dB Inline Amplifier

The TW141 is a rugged, waterproof wideband 40dB gain in-line amplifier, specially designed to boost weak frequency signals from 1200 to 1800 MHz, including L-Band and all GNSS (GPS, GLONASS and Galileo) signals. The TW141 provides for much longer cable runs from antenna to receiver without degradation of system sensitivity, for applications such as mast-mount, large vehicle and timing systems.

The TW141 passes DC directly from input to output to support centre conductor DC supply to the antenna, and so avoids the need for an additional bias source or bias "T". It is enclosed in a robust weatherproof cylindrical nickel-plated brass housing (IP67 compliant) and is available with SMA and TNC female connectors.

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





Applications

- Commercial and Military L-Band Satellite Systems
- Wireless Telecom & Cellular Base Station Timing Applications
- GNSS (GPS, GLONASS, Galileo), SBAS and Telematics Systems
- Commercial and Industrial Timing and Synchronization Applications

Features

- Very low noise: <2dB
- 75 mA max. current consumption
- Wide input voltage 5 to 10 Volts
- Cylindrical nickel-plated brass housing: IP67
- Powered via antenna coax from receiver
- 50 Ohm port impedance
- Available SMA, TNC or 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

Electrical

Nominal Gain @ 1500 MHz, T=21°C

Gain Flatness

Impedance

Noise Figure

Operational Bandwidth

VSWR 1150 to 1750 MHz

Input Return Loss Zo=50

Output Return Loss Zo=50

Reverse Isolation

Output 1dB Compression Level

Output IP3

Supply Range voltage

Supply Current

42 dB + / - 3 dB typ.

±2 dB

50 Ohms

<2 dB

1200 to 1800 MHz

≤2 max.

> -10 dB

> -10 dB>50 dB

+7 dBm

+20 dBm

5 to 10 VDC nominal

75 mA max.

Mechanicals & Environmental

Mechanical Size (body dimensions only)

Weight

Connectors

Torque Limitations (in.lbs)

Operating Temp. Range

Enclosure

Environmental

Warranty

59 mm L x 20 mm Dia. (2.32" L x 0.787" Dia.)

<85g

SMA jack or TNC Jack

N-type TNC

6.1 - 8.4

SMA 3 - 5

8 - 12

-40 to +85 °C

Nickel-plated brass

RoHS., REACH, and IP67 compliant

One year - parts and labour

Ordering Information

TW141 40dB gain In-Line Amp with SMA Jack 32-0141-00 TW141 40dB gain In-Line Amp with TNC Jack 32-0141-01

TW141 40dB gain In-Line Amp with N-Type 32-0141-14 (premium applies)

Tallysman Wireless Inc

36 Steacie Drive

Ottawa ON K2K 2A9 Canada

Tel +1 613 591 3131 Fax +1 613 591 3121

sales@tallysman.com

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