

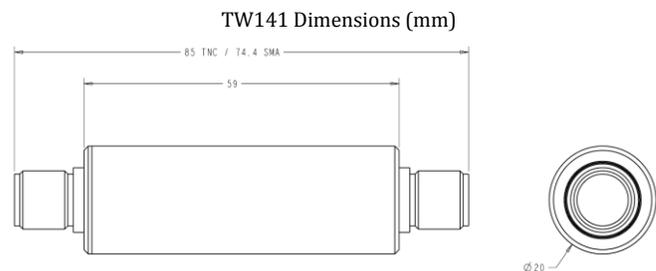


A TIME AND PLACE *for everything™*

TW141 1200 to 1750 MHz 40 dB Inline Amplifier

The TW141 by Tallysman Wireless is a rugged, waterproof wideband 40dB gain in-line amplifier, specially designed to boost weak frequency signals from 1200 to 1750 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.



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 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

Electrical

• Nominal Gain @ 1500 MHz, T=21°C	40 dB +/- 1 dB typ.
• Gain Flatness	±2 dB
• Impedance	50 Ohms
• Noise Figure	<2 dB
• Operational Bandwidth	1200 to 1750 MHz
• VSWR 1150 to 1750 MHz	≤2 max.
• Input Return Loss Zo=50	> -10 dB
• Output Return Loss Zo=50	> -15 dB
• Reverse Isolation	>35 dB
• Output 1dB Compression Level	+10 dB
• Output IP3	+20 dBm
• Supply Range voltage	5 to 10 VDC nominal
• Supply Current	75 mA max.

Mechanicals & Environmental

Mechanical Size (body dimensions only)	59 mm L x 20 mm Dia. (2.32" L x 0.787" 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

• TW141 40dB gain In-Line Amp with SMA Jack	32-0141-0
• TW141 40dB gain In-Line Amp with TNC Jack	32-0141-1

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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