

## Standard Features

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.



## Specifications

- Nominal Gain - 28 dB +/- 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

## Mechanical

### CONNECTORS

- SMA Jack, TNC Jack, or N-Type Jack  
(Max TNC connector Torque 6.1 in-lbs)

### DIMENSIONS

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

### OPERATING PARAMETERS

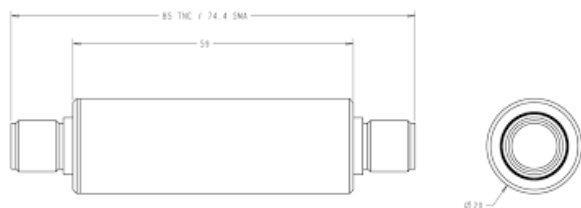
- -40 to +85 °C

### ENCLOSURE

- Nickel-plated brass

### ENVIRONMENTAL

- RoHS, REACH, and IP67 compliant



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