

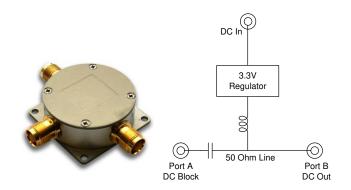
TW154 Regulated 0.5 to 3GHz, 3.3V Bias-Tee

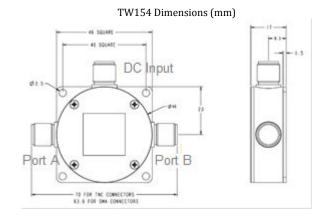
The TW154 is a professional grade wideband Bias-Tee for injecting DC voltages onto coaxial lines. The regulated output voltage and the high output current makes this bias-tee highly suitable for many active antennas and amplifiers. It is useable at higher frequencies with higher insertion loss (see data below).

The TW154 is housed in a robust RF sealed, weatherproof (IP67) clear anodized aluminum enclosure and is available with 3 x SMA or TNC Jack connectors.

Applications

- L-Band Signal Distribution
- GNSS (GPS/GLONASS) Signal Distribution





Features

- Low insertion loss: less than 1 dB at 3 GHz.
- Regulated output voltage: 3.3 VDC
- VSWR: <1.3 @ 3 GHz
- Operating frequency: 0.5 to 3 GHz
- Wide input voltage range: 3.6 to 10 VDC**
- High current output: 350 mA**
- RF sealed, clear anodized aluminum enclosure
- IP67 compliant (TNC Jack connector only)
- SMA or TNC Jack connectors
- RoHS compliant

Benefits

- Compact form factor
- Allows the use of an external power supply
- Fits in line with antenna cable
- Robust design
- Suitable for harsh environments
- Industrial temperature range: -40 to 85 °C





TW154 Regulated 0.5 to 3GHz, 3.3V Bias-Tee

Specifications vcc=5V, over full bandwidth, T=25 °C

Electrical

Operational Frequency
 VSWR (50Ω)
 Insertion Loss
 Supply Current
 Output Current*
 Output Current
 Output Current

Output Current* up to 350 mA
Input Supply Voltage** 3.6 to 10 VDC
Output Voltage 3.3 VDC \pm 2.5%

Quiescent Current (no load) @Vin=10V <250 μA

Mechanicals

• Size 1.81" L x 1.81" W x 0.669" H

(46 mm L x 46 mm W x 17 mm H)
 Weight
 Connectors
 SMA Jack or TNC Jack

DC Connector SMA jack or TNC Jack

Operating Temp. Range
 Enclosure
 -40 to +85 °C
 Clear anodized aluminum

Environmental RoHS, and IP67 compliant (32-0154-2 only)

Warranty One year – parts and labour

Ordering Information

• TW154 Bias-Tee with SMA Jack connector (for internal use) 32-0154-0

• TW154 Bias-Tee with TNC Jack connector (for internal use) 32-0154-1

TW154 Bias-Tee with TNC Jack connector (for external use) 32-0154-2

Please contact Tallysman Wireless for additional information

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^{*} The output current limit should be de-rated to restrict the maximum power dissipated wi and should be calculated as Imax <= (125-Tamb)/(70*(Vin-Vo)).

^{**} The drop-out voltage of the TW154 Bias-Tee is <= 0.15 V at lout =100 mA and <= 0.6 V at lout=350 mA