TW154

CALIAN
Confidence. Engineered.

3V3 Regulated L-Band and GNSS Bias-T

Frequency Coverage: Full GNSS Spectrum

The TW154 is a professional grade wideband Bias-Tee for injecting DC voltages onto coaxial lines.

The regulated output voltage and the large output current makes this product highly suitable for many active antennas and amplifiers. It is useable up to 6 GHz with higher insertion loss, but designed to be used up to 3 GHz.

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



Applications

- L-Band Signal Distribution
- GNSS Signal Distribution
- Iridium and Globalstar 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 Female connector options
- RoHS and REACH Compliant

Benefits

- Compact form factor
- Allows use of external power supply
- Fits in-line with antenna cable
- Robust design
- Suitable for harsh environments

About Calian: With global headquarters and manufacturing in Ottawa, Canada, Calian is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at **www.calian.com/gnss**

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Electrical Specifications

Parameter	Value
Operational Frequency	0.5 to 3 GHz
VSWR (50 Ω)	1.1 typ., 1.5 max.
Insertion Loss	1 dB typ.
Supply Current	1 mA max.
Quiescent Current (no load) @ 10 V Input Voltage	250 µA max.
Output Current	350 mA max.
Input Supply Voltage	3.6 to 10 VDC
Output Voltage	3.3 VDC
Maximum Input RF Power	3 W
Port Isolation	-
Amplitude Imbalance	-
Phase Balance	-

Mechanicals

Size	46 mm (dia.) x 17 mm (h.)
Weight	100 g
Enclosure	Anodized Aluminum
Mount	4x Screws
Connectors	SMA or TNC (female)

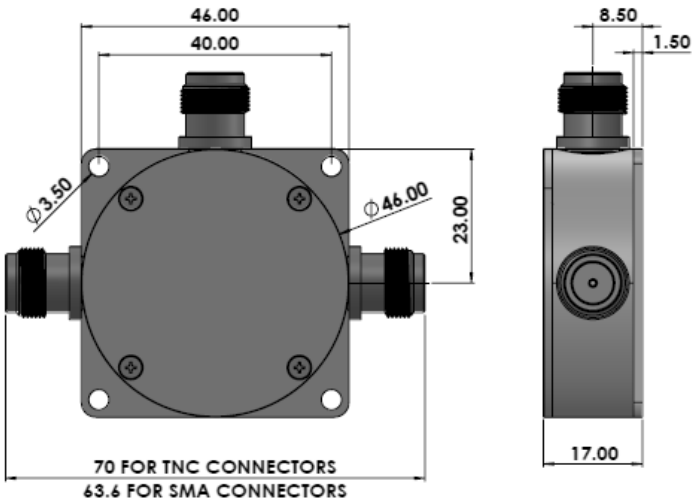
Environmental

Operating Temperature	-40 °C to 85 °C
Storage Temperature	-55 °C to 95 °C
Vibration	-
Shock	-
Salt Fog	-
IP Rating	IP67 with TNC option
Compliance	RoHS and REACH compliant

Warranty

Parts and Labour	-

Mechanical Diagram - Units in 'mm'



Ordering Information

Part Number **32-0154-xx**

Where xx = 00 for SMA (female), 01 for TNC (female) or 02* for IP67-rated TNC (female)
* Premium may apply

Please refer to our **Ordering Guide** to review available radomes and connectors at:
https://www.tallysman.com/resource/tallysman-ordering-guide/

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