TW155



5V Regulated L-Band and GNSS Bias-T

Frequency Coverage: Full GNSS Spectrum

The TW155 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 TW155 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	Features	Benefits	
 L-Band Signal Distribution GNSS Signal Distribution Iridium and Globalstar Signal Distribution 	 Low insertion loss: less than 1 dB at 3 GHz Regulated output voltage: 5 VDC VSWR: < 1.3 @ 3 GHz Operating frequency: 0.5 to 3 GHz Wide input voltage range: 5.5 to 10 VDC High current output: 450 mA RF sealed, clear anodized aluminum enclosure IP67 compliant (TNC Jack connector only) SMA or TNC Female connector options RoHS and RFACH Compliant 	 Compact form factor Allows use of external power supply Fits in-line with antenna cable Robust design Suitable for harsh environments 	

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 Contact us: info.gnss@calian.com T: +1 613 591-3131

5V Regulated L-Band and GNSS Bias-T

Frequency Coverage:

Full GNSS Spectrum

Electrical Specifications

Parameter	Value
Operational Frequency	0.5 to 3 GHz
VSWR (50 Ω)	1.1 typ., 1.3 max.
Insertion Loss	1 dB typ.
Supply Current	5 mA max.
Quiescent Current (no load) @ 10 V Input Voltage	250 μA max.
Output Current	450 mA max.
Input Supply Voltage	5.5 to 10 VDC
Output Voltage	5 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

Ordering Information

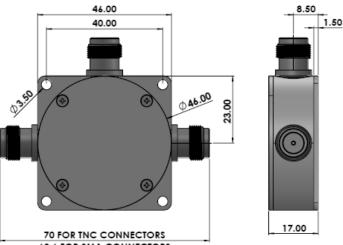
Part Number

32-0155-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/

Mechanical Diagram - Units in 'mm'



63.6 FOR SMA CONNECTORS

© 2023 Calian Inc. All rights reserved. Calian, the "Confidence. Engineered." tag line and the Calain logo are trademarks or registered trademarks of Calian Inc. and/or its affiliates in Canada and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. The information presented is subject to change without notice. Calian assumes no responsibility for any errors or omissions in this document. Calian hereby disclaims any or all warranties and liabilities of any kind.

