TW151

CALIAN
Confidence. Engineered.

L-Band and GNSS DC Blocked 1 to 2 Signal Splitter

Frequency Coverage: Full GNSS Spectrum

The TW151 is a professional grade 1 to 2 GHz L-Band Signal Splitter, suitable for a wide range of L-Band and all GNSS signals, including GPS L1, L2, L5, GLONASS G1, G2, G3, BeiDou B1, B2a, B2b, B3 Galileo E1, E5a, E5b, and E6, as well as Iridium and Globalstar satellite communications.

The TW151 splitter permits two GNSS receivers to operate on one antenna, with both receiver ports being DC blocked.

The TW151 is housed in a robust weatherproof (IP67 with TNC) clear anodized aluminum enclosure and is available with 3 gold-plated SMA or TNC Jack (female) connectors.



Applications

- L-Band Signal Distribution
- GNSS Signal Distribution
- Iridium and Globalstar Signal Distribution
- Timing

Features

- DC Blocked receiver ports
- 1 to 2 GHz operating frequency
- Low insertion loss 1.0 dB @ 2 GHz
- VSWR < 1.25 typ.
- Pass through current up to 200 mA
- 50 Ohm port impedance
- Anodized aluminum, IP67 (with TNC) housing
- SMA or TNC Female connector options
- RoHS and REACH Compliant

Benefits

- Compact form factor
- Allows two GNSS receivers to share one antenna
- 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	1 to 2 GHz
VSWR (50 Ω)	1.1 typ., 1.5 max.
Insertion Loss	1 dB typ. in addition to 3 dB splitting loss
Supply Current	1 mA max.
Quiescent Current (no load) @ 10 V Input Voltage	-
Output Current	-
Input Supply Voltage	-
Output Voltage	-
Maximum Input RF Power	1.5 W
Port Isolation	18 dB min.
Amplitude Imbalance	0.5 dB max.
Phase Balance	2° max.

Mechanicals

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

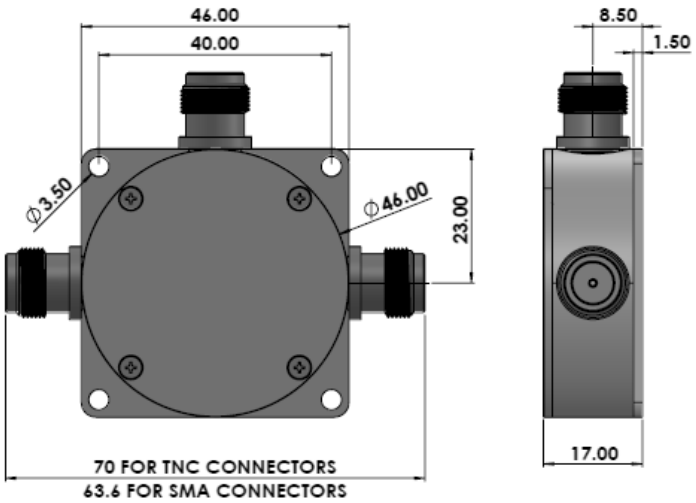
Environmental

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 **32-0151-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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