TW151 DC Blocked L-Band/GNSS 1 to 2 Signal Splitter

The TW151 by Tallysman Wireless is a professional grade DC blocked L-Band 1 to 2 Signal Splitter, suitable for a wide range of L-Band and all GNSS applications, including GPS L1, L2, L5 and GLONASS L1 & L2.

The TW151 splitter permits for two GNSS receivers to operate on one antenna, while blocking the DC voltage source on both receiver ports 1 and 2, suitable for applications with external DC voltage source.

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

Applications
- L-Band Signal Distribution
- GPS L1, L2 & L5 Signal Distribution
- GLONASS L1 & L2 Signal Distribution
- Galileo E1, E5 & E6 Signal Distribution

Features
- DC blocked on both receiver ports
- 1 to 2 GHz operating frequency
- Low insertion loss 1.0 dB over 3 GHz
- VSWR <1.25 typ.
- 50 Ohm port impedance
- Clear anodized aluminum, IP67 housing
- Gold-plated SMA or TNC Jack connectors
- RoHS Compliant

Benefits
- Allows for external DC source
- Allows use of two GNSS receivers on one antenna
- Compact form factor
- Fits in line with antenna cable
- Robust design
- Suitable for harsh environments
TW151 DC Blocked L-Band/GNSS 1 to 2 Signal Splitter Specifications

Electrical

- Operational Frequency: 1 to 2 GHz
- VSWR (50Ω): 1.25 typ., 1.5 max
- Insertion Loss: 1 dB over 30dB
- Supply Voltage: 18 VDC max
- DC Voltage Block: Port 1 and 2
- High Port Isolation: >18 dB
- Amplitude Balance: 0.5 dB max
- Phase Balance: 2 degrees max

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: 100 g (0.22 lbs)
- Connectors: 3 x SMA or 3 x TNC Jack
- Operating Temp. Range: -40 to +85 C
- Enclosure: Clear anodized aluminum, IP67 compliant
- Environmental: RoHS complaint
- Warranty: One year – parts and labour

Ordering Information

- TW151 – 1 to 2 L-Band/GNSS Splitter with SMA jacks: 32-0151-0
- TW151 – 1 to 2 L-Band/GNSS Splitter with TNC jacks: 32-0151-1

Please contact Tallysman Wireless for additional information.