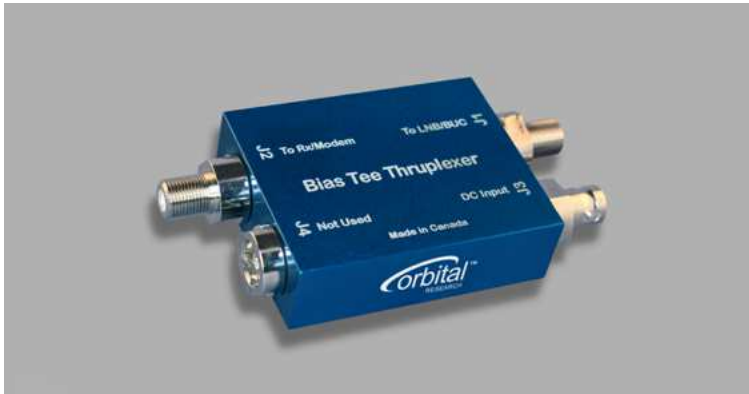




Orbital Thru Tee (Bias Tee Thruplexer)

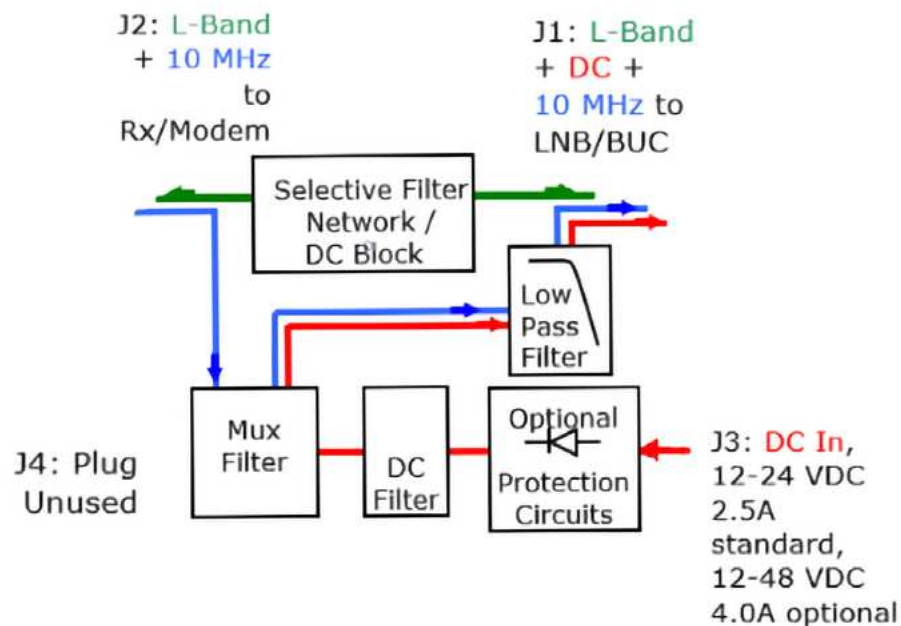


The Orbital Thru Tee (TT-25/40) is a bias tee “thruplexer” that passes both L-band and 10 MHz signals between your modem and low noise block downconverter (LNB) or block upconverter (BUC) – in addition to inserting an external DC power source of up to 4.0 amps.

The Thru Tee uses internal filters to block DC from the modem and minimize 10 MHz noise – delivering extremely low thru loss and very high return loss. Primarily designed for the satellite communications industry, the Orbital Thru Tee is also a good fit for 4G and 5G cellular networks.

- Filters L-band/10 MHz signals and inserts DC
- Choice of connectors and mounting options
- Customizable form factor
- Stackable with other Orbital products

This product often used to allow insertion of DC voltage where the indoor modem/equipment either has no ability to provide DC on its IF Receive interface or cannot provide sufficient power for the outdoor LNB/BUC.



ELECTRICAL

L Band	
Bandpass	10 MHz & 900 to 2100 MHz
Thru Loss	1.0 dB maximum
Ripple	±0.5 dB maximum
Input VSWR	1.5 : 1 maximum
Output VSWR	1.5 : 1 maximum
DC	
Filtering	Hash filter, low pass filter
Resistance	0.132 ohms (average)

MECHANICAL

Measurements	Tolerance ±.005 in.
Size (case)	3.425l x 2.55w x 0.88h in.
Size (with conn)	3.425l x 3.8w x 0.88h in.
Weight	5 oz
Paint / Colour	Blue anodized finish
Mounting holes	3/8" (5mm) Accepts standard rackmounting screws 10/32 or 10/34

ENVIRONMENTAL

Operating Temp	-40 to +60° Celsius
Relative Humidity	Up to 100% condensation and frost

POWER SPECIFICATIONS

Input DC Voltage	Passive device No power required
Power Capacity	12 to 24 VDC - 2.5A 12 to 48 VDC - 4.0A high

SWITCHING POWER SUPPLY

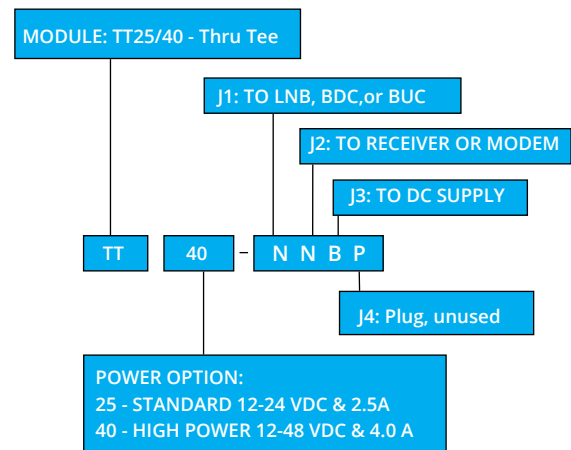
(not included with Thru Tee)

See: PS1 brochure for N. America
PS2 brochure for Global

CONNECTORS AVAILABLE

J1, J2: L-Band ports	S - SMA 50Ω F - F, 75Ω N - N, 50Ω
J3: DC Supply	B - BNC (preferred) S - SMA N - N T - TNC ft - feedthru

HOW TO ORDER



For more information to order, please contact us at sales@orbitalresearch.net