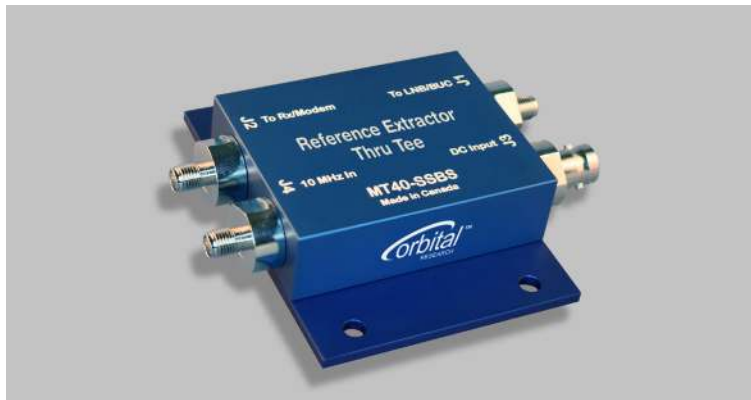




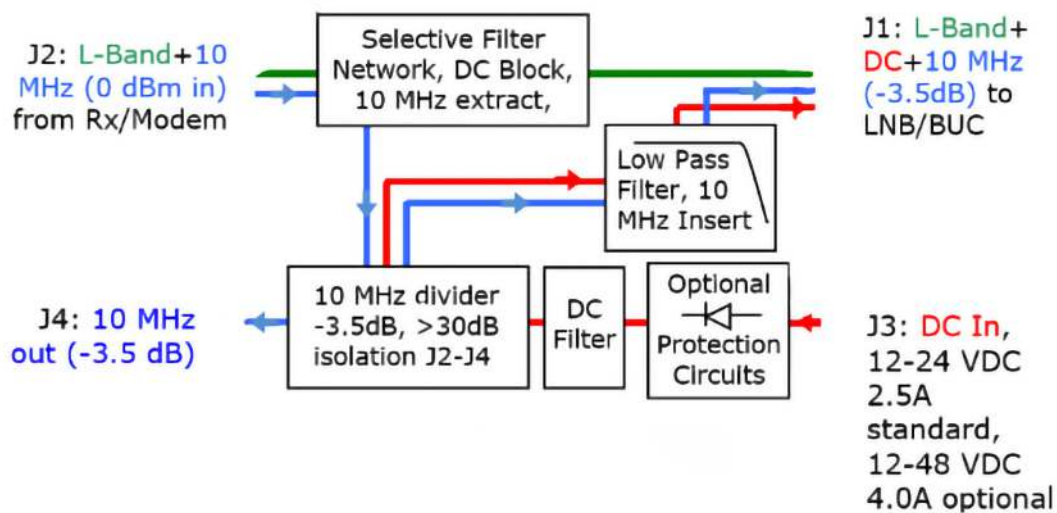
Orbital 10 MHz Reference Extractor Thru Tee



The Orbital 10 MHz Reference Extractor Thru Tee (RET-25/40) is a unique bias tee thruplexer (thru tee) that does more than pass L-band and 10 MHz and insert external DC: it extracts the 10 MHz reference signal from the modem.

The demultiplexed signal can be used for monitoring purposes or as the timing reference for additional devices – such as a redundant LNB or BUC. This RF component can help SATCOM system integrators and 4G and 5G cellular network operators reduce costs, simplify designs and eliminate multiple clock sources.

- Filters L-band and 10 MHz, inserts DC
- Extracts 10 MHz reference signal
- Choice of connector type and mounting options
- High return loss and low thru loss performance
- Only 3.5 dB of signal loss for demultiplexed signal



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

10 MHz

Both coupled & pass through are 3.5 dB down

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

RoHS & REACH Compliant

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

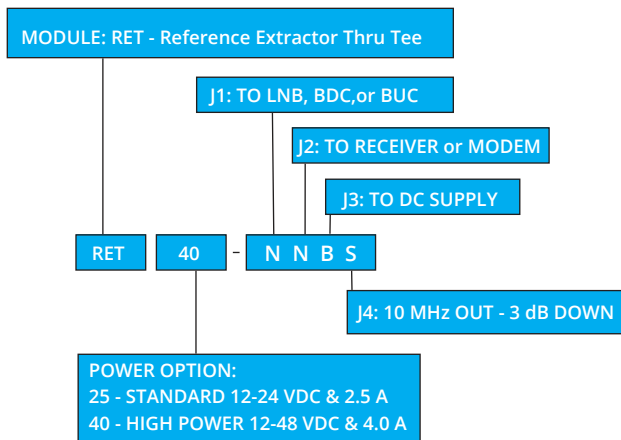
(not included with DC Thru Diplexer)

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
J4: 10 MHz	S - SMA (preferred) B - BNC N - N

HOW TO ORDER



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