



Orbital Master Oscillator Dual MuxTees



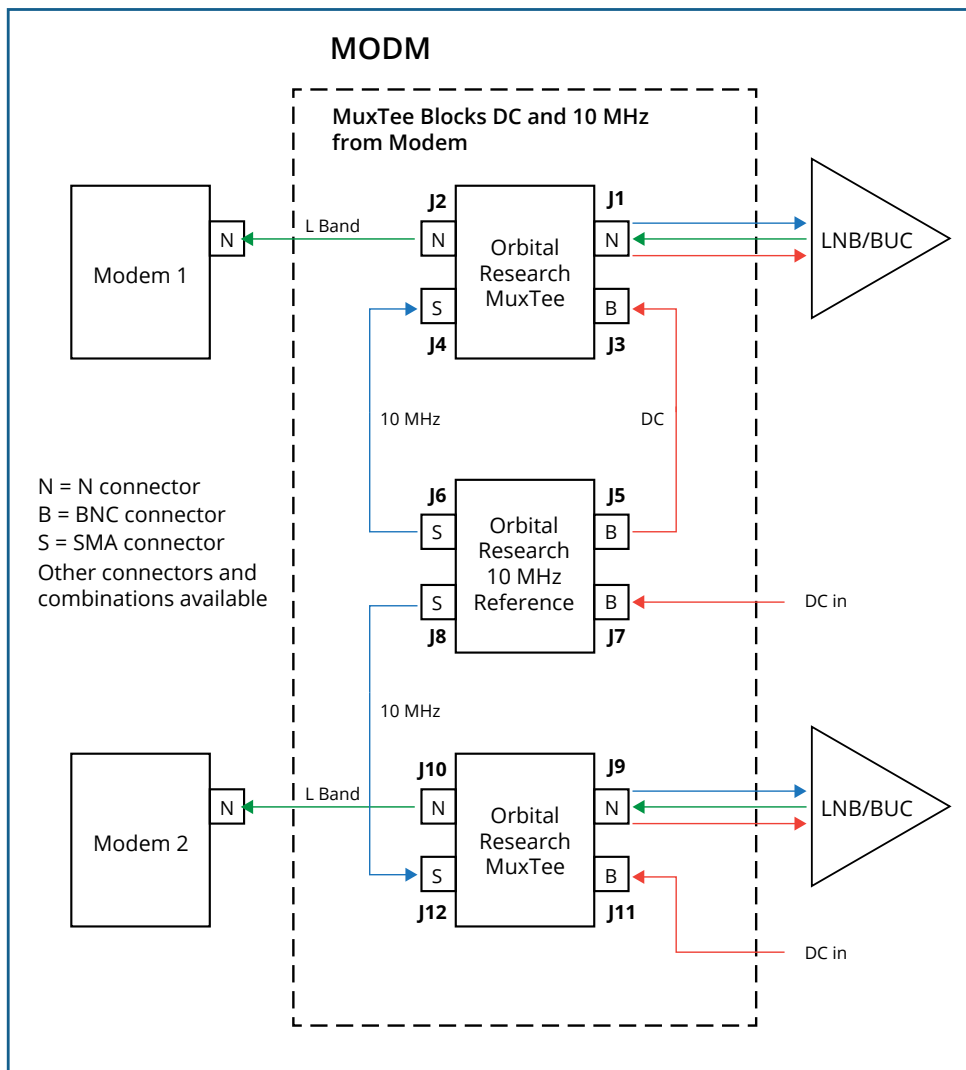
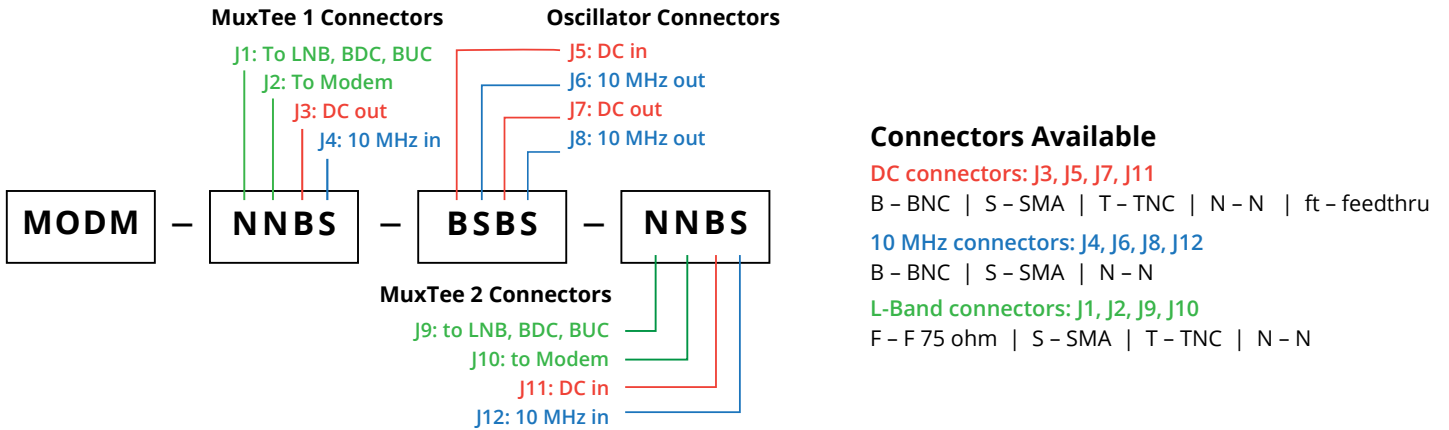
Master TCXO 10 MHz Reference Oscillator and Dual BiasTee Multiplexers (MuxTees) in one package.

An Orbital Research Master Oscillator Dual MuxTees (MODM) is a stacked 10 MHz Oscillator and two MuxTees. This device allows insertion of an external 10 MHz Reference Oscillator and external DC source to feed a pair of external referenced LNB's, BDC's or BUC's via the device coax connector. Perfect for any transmit/receive, two polarization receive or two polarization transmit satcom terminal.

Advantages include:

- Integrated device in small form factor for indoor or outdoor installations – 3.425L x 2.55W x 2.38H (inches)
- Industry Leading VSWR and thru loss specs for maximum power transfer
- Blocking of 10 MHz and DC signals from Modem to avoid interfering signals
- Up to 4A of DC power transferred
- Independent oscillator and power supply provide immunity from ground loops, unwanted modulations, and transients
- Low Phase Noise and excellent stability for commercial Satcom applications

How to order a MODM – Master Oscillator Dual MuxTees



SPECIFICATIONS		STANDARD
L-Band Band-pass		900 to 2100 MHz 900 to 3500 MHz option
Thru Loss		0.5 dB maximum
Return Loss		20 dB minimum
10 MHz Output level		+ 2 dBm
Stability over temperature		$\pm 1.5 \times 10^{-7}$
Aging		$\pm 5 \times 10^{-6}$ /year
Temperature Range		+10°C to +40°C
Phase Noise	100 Hz	-130 dBc/Hz
	1 kHz	-147 dBc/Hz
	10 kHz	-148 dBc/Hz
	100 kHz	-148 dBc/Hz
Power		+15 to +24 VDC
Standards		RoHS and Reach
Humidity		Up to 100% condensation and frost
Size		3.425(L) x 2.55(W) x 2.38(H) inches
Paint		FED-STD-595, anodized blue finish

Mounting options:

- With Mounting Plate (not shown)
- 19" rack mounting plate

Product used with:

- For a complete list of System Interface Products that can be used with a MODM, please visit our web site at <https://orbitalresearch.net/product/sips/>

Specifications subject to change

Please contact Orbital Research for ordering information:
sales@orbitalresearch.net | +1 (604) 419-8585