



C-band Multiband Outdoor TLT TLT-TRC-D-T2-A_ODU

The TEMIX Test Loop Translator (TLT) shapes the next-generation satellite transmission with its breakthrough leading edge technology, state of the art design and unprecedented reliability.

Outdoor DUAL C-band TLT is designed to Translate the Tx Up-link Frequency Band into the Receive C-Band.



TEMIX TLT ODU series combines high performances in an outdoor housing capable to operate under most extreme environmental conditions in Multi Band with two Channels and tunable LO. Monitor and control is from serial port EIA485, Ethernet or Fiber Optic. Features Best in Class RF characteristic with external 10 MHz reference or built-in high stability reference oscillator.

RF Performance		
Input Frequency Range	5.850 – 6.450 GHz	6.700 – 7.100 GHz
Output Frequency Range	3.625 - 4.225 GHz	4.475 - 4.875 GHz
LO Frequency	2210 MHz to 2240 MHz (Tunable; in 1 KHz Step Size)	2210MHz to 2240 MHz (Tunable; in 1 KHz Step Size)
I/O Return Loss	18 dB min	
Gain Flatness	+/-0.25 dB over 40 MHz; +/-1.0dB max over full band	
Conversion Gain	20dB	
Gain Control	30dB in 1dB steps	
Gain Stability	$\pm 1 \times 10^{-6}$ (0 to 60°C)	
External Reference Frequency	10MHz (5MHz option; autosensing internal/external option)	
Phase noise: @ 100Hz	-75dBc (-80 dBc option)	
@ 1kHz	-90dBc (-90 dBc option)	
@ 10kHz	-95dBc (-100 dBc option)	
Spurious	-30dBc in band (at 0 dBm input); -50dBc out of band	
3rd Order Intermodulation	better of -50 dBc (with 2 in-band signals at -13dBm)	
Input/Output Isolation	better of -60 dB	
Output Mute Rejection	better of -60 dB	
MONITOR & CONTROL FEATURES	SNMP, Web Browser interface, or RS485 (option), or Fiber Optic (option)	
POWER SUPPLY	90 to 265VAC, 50/60Hz, 25W	
MECHANICAL	200 x 290 x 90 mm	
RF CONNECTORS	RF IN: SMA-f; RF OUT: SMA-f; RF MON: SMA-f; (N-type option)	
ENVIRONMENTAL	Operating temperature: -30 to +60 °C Storage Temperature: -40 to +85 °C Humidity: up to 95% Altitude: 4500m SLM	
Sealing Protection	IP65	

Main Features

- High Reliability
- High Availability
- MULTI BAND with two separate channels
- DUAL Tunable LO

*The Information included in this data sheet may be changed without advise. rev_01/18

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