



C-band Outdoor TLT TLT-TRC-D-T1-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 C-band TLT is designed to Translate the Tx Up-link Frequency Band into the Receive C-Band.



TEMIX TLT ODU series (also available with variable LO in 50MHz range) combines high performances in an outdoor housing capable to operate under most extreme environmental conditions. 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
Output Frequency Range	3.625 - 4.200 GHz
LO Frequency	2200MHz to 2250 MHz (in 1 KHz Step Size)
I/O Return Loss	17 dB min
Noise Figure	12dB, Typical @ min Input Level
Gain Flatness	+/-2.0dB max over full band
Conversion Gain	20dB
Gain Control	30dB in 1dB steps
Gain Stability	$\pm 1 \times 10^{-7}$ (0 to 50°C)
External Reference Frequency	10MHz (5MHz option; autosensing internal/external option)
Phase noise: @ 100Hz	-72dBc (-80 dBc option)
@ 1kHz	-80dBc (-90 dBc option)
@ 10kHz	-95dBc (-100 dBc option)
Spurious	-60dBc in band; -60dBc out of band
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: 0 to 95%
Degree of Protection	IP65

Main Features

- Phase noise as per IESS308/309
- High Reliability
- High Availability
- Single Frequency Conversion without inversion

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

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