



C-band Outdoor TLT TLT-TRC-D-0x-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 Multi LO1/LO2 Dual switchable) 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 – 6.425 GHz (Set-1) / 6.425 - 6.725 GHz (Set-2)
Output Frequency Range	3.625 - 4.200 GHz (Set-1) & 4.500 – 4.800 GHz (Set-2)
LO Frequency	LO-1= 2.225 GHz for Set-1 & LO-2= 1.925 GHz for Set-2
I/O Return Loss	20 dB min
Gain Flatness	+/-1.5dB max over full band; +/-0.5dB max over any 116MHz
Conversion Gain	20dB
Gain Control	25dB 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	-65dBc (-80 dBc option)
@ 1kHz	-75dBc (-90 dBc option)
@ 10kHz	-85dBc (-100 dBc option)
Spurious	-40dBc in band; -50dBc 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	IP67

Main Features

- Phase noise as per IESS308/309
- Spurious below -65dBc
- Superior Gain flatness
- DUAL-LO Selectable
- Ordering info:
x = 1 Set-1
x = 2 Set-2
- Options:
Variable LO (2210-2240 MHz) managed through Web Browser via Ethernet Port - (OPT-VLO)

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

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