



TLT68 Series

Ku-Band Satellite Test Loop Translator

Features

- IRU Indoor Rack Mount
- Front panel control
- Full remote control via RS232/ RS485 and Ethernet
- Covering the entire Ku Band Frequencies
- Excellent phase noise specs

Reliability

Field proven with system deployed worldwide. Agilis TLT can withstand temperature from 0°C to +50°C up to 95% non-condensing humidity.

Quality Assurance

All Agilis TLT are designed and manufactured according to ISO 9001 Standard.

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Technical Specifications

LO Frequency	LO 1	LO 2	LO 3
	3.05GHz	2.3GHz	1.75GHz
Input Frequency	13.75 - 14.5GHz		
Output Frequency	10.7 - 11.45GHz	11.45 - 12.2GHz	12.0 - 12.75GHz

Input Parameters

Input Frequency	: 13.75 to 14.5GHz
Impedance	: 50 Ω
Return Loss	: 20dB min
Input Power	: +16dBm max
Level Adjustment	: 60 dB in step of 0.5dB

Output Parameters

Output Frequency	: 10.70 to 12.75GHz (Ku-band) 950 to 1950MHz (L-band)
Impedance	: 50 Ω
VSWR	: 20dB min
Output Power	: -60dBm max
Spurious	: -50dBc
Level Adjustment	: 30 dB in step of 0.5dB

Transfer Parameters

Conversion Loss	: 20 dB max
Gain Flatness	: \pm 2.0dB
Input / Output Isolation	: 60dB min

LO Parameters

LO Frequency	: Switchable LO (see table)
Frequency Stability	: \pm 0.5ppb per day at 25C
Phase Noise	
@1KHz	: -73dBc/Hz
@10KHz	: -83dBc/Hz
@100KHz	: -93dBc/Hz

Reference

10MHz reference	: Internal
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Rear Panel Connections

RF Band Input	: N-type Female
RF Band Output	: N-type Female
Remote Interface	: DB-9
Ethernet Interface	: RJ45

Monitor and Control

Interface	: Front Panel RS485 Ethernet
Monitoring parameters	: LO Frequency Level
Control Parameters	: Level Adjustment

Power Supply Requirement

AC Input Voltage	: 100 to 240Vac 50/60 Hz
Power Consumption	: 25W

Environmental

Operating temperature	: 0°C to 50°C
Humidity	: Up to 95% (Non-condensing)

Mechanical

Dimension	: 480L x 330W x 44H mm
Weight	: 3.5kg

*All Specifications are subject to changes without notice.
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Request A Quote

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