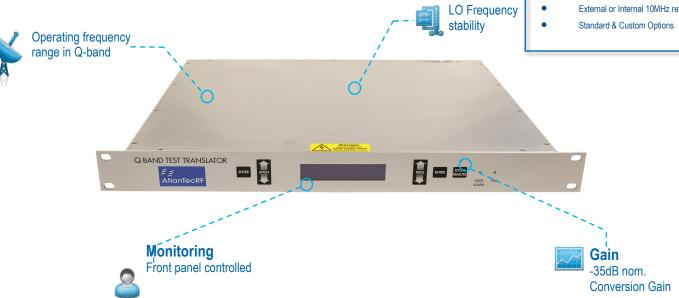


Test Loop Translator - Q Band Synthesised LO—Ethernet Control

The ALR series of Q Band Loop Test Translators feature Synthesised Variable Frequency Local Oscillators (LOs) to provide the user with the most versatile and comprehensive operating configurations for translation of uplink (Tx) frequencies to either downlink (Rx) frequencies or to L-band, and for L-band to downlink (Rx)

- Simulates Satellite Link
- All Frequency Combinations
- All Frequency Conversions—Tx-Rx, Tx-L &
- Fully Versatile
- Local & Remote ethernet Control for LO Frequency & Signal Attenuation
- External or Internal 10MHz reference



General Specifications			
LO Frequency Steps	25MHz		
Maximum Input Level	0dBm		
Conversion Gain	-35dB nom. (see options)		
Conversion Gain Flatness	+/-2 dB typ. +/-0.5dB/40MHz max.		
Attenuation Range	30dB Steps (see options)		
Attenuation Control	0.25dB steps		
Impedance	50 ohms		
Input VSWR	1.8:1 typ. (see options)		
Output VSWR	1.8:1 typ. (see options)		
Signal Related Spurious	-25dBc typ.		
LO Related Spurious & Harmonics	-30dBm typ.		
Non Signal or LO Related Spurious	-60dBc min.		
Lock Alarm	LED, Front Panel & Ethernet		
Input Connector (see options)	2.4mm Female		
Output Connector	SMA Female		
Reference Input Connector	BNC Female		
Ethernet Connector	RJ45		

Power		
Input Power	80-240V, 50-60Hz	
Input Power Connector	IEC with Fuse	

Environmental		
Operating Temperature	0 to +50C (see options)	
Storage Temperature	-10 to +70C	

Physical		
Dimensions	19" x 1U x 13.5" (343mm) incl. connectors & protrusions	

Phase Noise (dBc/Hz) (typical)				
	LO Frequency (MHz)			
Offset Frequency (Hz)	19.0	25.0	43.0	
100	-60	-60	-50	
1K	-75	-70	-65	
10K	-80	-75	-70	
100K	-80	-80	-70	
1M	-110	-110	-105	

Options:

TLT04

TLT01 1.0dB Attenuation Steps

TLT02 Input/Output Filters for 60dB Isolation LO Filter for 60dB LO Rejection TLT03

Input/Output Isolators for 1.3:1 VSWR TLT05 Outdoor Weatherproof Housing -20 to +70C (No LCD)

TLT06 Internal Battery Charger

> Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage













