Atlantic Microwave
An ETL Systems Company

Model Number: ALT-1800-Ku

Ku-band Tx to Ku-band Rx Test Loop Translator—Fixed LO

Input Frequency: 12750 - 13250MHz
Output Frequency: 10950- 11450MHz

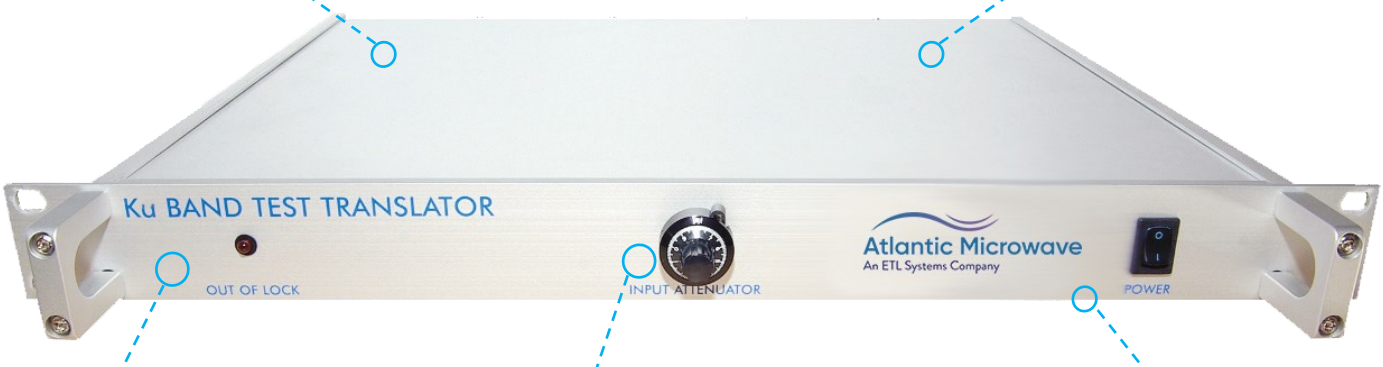
Typical applications:

- To replace the satellite link for test and alignment of earth station systems operating in the Ka frequency bands.
- SNG testing.
- Satcoms & Teleports testing.

The ALT series of Ku Band Test Loop Translators (TLT's) are designed to replace the satellite link for test and alignment of earth station systems operating in the Ku frequency bands. Incorporating fundamental frequency phase locked oscillators and double balanced mixers, the translators block convert frequencies from uplink to either downlink or L-Band for instantaneous monitoring of frequency, power levels and modulation. The input path contains a front panel controlled continuously variable attenuator for reducing input power levels. Each unit also provides a reference frequency output and LO lock alarm.

Operating Frequency Range
Input Frequency: 12750 - 13250MHz
Output Frequency: 10950- 11450MHz

Fixed local oscillator (LO)



Customisation standard & custom options available

Remote control & monitoring front panel controlled continuously variable attenuator

Compact 1U high chassis

V 1.0 E&OE

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GENERAL SPECIFICATIONS		
Operating Frequency	**Input**	12750 - 13250MHz
	Output	10950- 11450MHz
Maximum Input Level		+10dBm
Conversion Gain Flatness		+/-2dB typ. +/-0.5dB/40MHz max.
Impedance		50 ohms
Input VSWR		1.8:1 typical
Output VSWR		1.8:1 typical
Signal Related Spurious		-25dBc typical
LO Related Spurious & Harmonics		-30dBm typical
Non Signal or LO Related Spurious		-60dBm minimum
Lock Alarm		Front Panel
Input Connector (see options)		2.92mm Female
Output Connector		2.92mm Female
Reference Input Connector		BNC Female

Options:

TLT01	1.0dB Attenuation Steps
TLT02	Input/Output Filters for 60dB Isolation
TLT03	LO Filter for 60dB LO Rejection
TLT04	Input/Output Isolators for 1.8:1 VSWR
TLT05	Outdoor Weatherproof Housing -20 to +70C (No LCD)
TLT06	Internal Battery Charger

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) excl. connectors & protrusions

FIXED LO PHASE NOISE dBc/Hz (typical)

	LO Frequency (GHz)			
Offset Frequency (Hz)	2.0	10.0	12.0	27.0
100	-77	-72	-70	-63
1K	-90	-83	-80	-75
10K	-100	-85	-85	-78
100K	-100	-90	-85	-80
1M	-132	-117	-115	-109
10M	-140	-138	-135	-128

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.

ATLANTIC MICROWAVE
LIMITED
40a Springwood Drive
Braintree
Essex
England CM7 2YN

TELEPHONE
+44 (0)1376 550220
EMAIL
sales@atlanticmicrowave.com

FACSIMILE
+44 (0)1376 552145
WEB
www.atlanticmicrowave.com