

Test Loop Translator ATLT-K100 model



Advantages

- Converts Ku-band 14.0–14.5 GHz to 12.25-12.75 GHz
- Cost effective solution
- 10 MHz high stability internal reference
- Front panel control (local)
- Full remote control (remote)

Operating Bands

Basic Model number	RF Input GHz	RF Output GHz
ATLT- K100	14.0 – 14.5	12.25 – 12.75

*Other frequencies are available, please consult the factory

Overview

The Advantech Wireless Test Loop Translators ATLT- K100 models are available in variety of operating bands. The units are designed for testing satellite communications links. They simulate the satellite by band-translating the uplink frequencies to down link frequency. A single band ATLT unit works with 14.0 – 14.5 GHz operating frequency band, translating it to 12.25 – 12.75 GHz. Other frequency bands are also available. Please consult factory.

The flexible and comprehensive monitor and control features on the ATLT-K100 ensure that it will fit into any network management system architecture. The user-friendly front panel or the RS485 remote interface will provide full set-up and fault monitoring facilities.

The translator unit is housed in 19" 1U shelf. It is designed to meet the phase noise and frequency stability requirements of the satellite communications industry.

Options

- Ethernet SNMP Monitoring and Control
- Other operating bands, please consult factory

Test Loop Translator ATLT- K100 model

Product Features & Specifications			
RF Output		RF Input	
Frequency range	12.25 – 12.75 GHz		14.0 - 14.5 GHz
Output impedance	50Ω	Input level	0 dBm max
Output VSWR	1.5:1 max over operating band		+10 dBm no damage
		Input / Output Connector	N-type (female)
		Return loss	18 dB
Conversion Parameters		Controls & Indicators	
Max Conversion Gain	-35 dB min		
Gain adjustment	40 dB		Attenuator control
Attenuator step size	1 dB		Local/Remote
Gain flatness	2.0 dB P-P max. 0.8 dB P-P max. over any 40 MHz		Mute/Un-mute
Gain stability	±0.75 dB/15°C max. 0°+55°C		Total time is use
Spurious	-45 dBc In-band -55 dBm Out-of-band	Mechanical	
Group delay (over 40 MHz)	Linear 0.02 ns/Hz Parabolic 0.003 ns/MHz ² Ripple 1 ns p-p	Dimensions	Width 19" (482.6 mm) Height 1U 1.75" (44.45 mm) Depth 20" (508 mm)
Phase noise	10 Hz -45 dBc 100 Hz -73 dBc 1000Hz -83 dBc 10 kHz -93 dBc 100 kHz -103 dBc 1 MHz -115 dBc	Power Supply	
		Voltage	90 – 265 VAC (47 – 63 Hz)
		Power	20W
		Connector	IEC 603320 10A
		Monitor and Control	
		RS 485	DB9
		RS 232	DB9
		Environmental	
Reference		Operational	0°C to +50°C standard
Internal reference stability	+/- 2 x 10 ⁻⁸ / day	Storage	-55°C to +85°C
Aging	+/- 1 x 10 ⁻⁷ / year	Humidity	Non-condensing
		Altitude	3,000m AMSL

Ref.: PB-ATLT-K100-23221

NORTH AMERICA

USA
info.usa@advantechwireless.com

CANADA
Info.canada@advantechwireless.com

EUROPE

UNITED KINGDOM
info.uk@advantechwireless.com

SOUTH AMERICA

info.latam@advantechwireless.com

BRAZIL
info.brazil@advantechwireless.com

ASIA

info.asia@advantechwireless.com

INDIA
info.india@advantechwireless.com