

Ka Band Loop Test Translator



FEATURES

- Input Attenuator
- Low Phase Noise Contribution
- Lock Alarm Indication
- 1 RU Chassis

OPTIONS

- Higher Frequency Stability
- Input and Output Filtering
- Remote Gain Adjustment
- External Reference Input
- Multiple Frequency Bands -Remote Select
- Summary Alarm
- Weatherized Enclosures

Tampa Microwave loop test translators are designed to allow a satellite to be "short circuited" so terminal output can be fed to down link monitoring equipment. Tampa Microwave LTT's are designed for applications where frequency translation is needed with a minimum of amplitude and delay distortions.

This specification describes the electrical and physical characteristics of the TML LTT-9800-21-1RU loop test translator. The loop test translator converts the Ka Band uplink frequency range of 29.75 to 31.0 GHz to an output frequency of 19.95 to 21.2 GHz.

SPECIFICATIONS Model LTT-9800-21-1RU

FUNCTIONAL	
Input Frequency	29.75 to 31.0 GHz
Input Level	-10 dBm maximum Plus input attenuator setting
Input Return Loss	15 dB minimum
Output Frequency	19.95 to 21.1 GHz
Output Level	-35 dBm maximum
Output Return Loss	15 dB minimum
Gain	-35 dB nominal
Gain Adjustment	-35 to -65 dB
Gain Flatness	± 0.4 dB per 40 MHz
Noise Figure	20 dB at minimum attenuation
Internal Spurious Non Sig Rel	-65 dBm Within IF Output
Sig Rel	-65 dBc Within IF Output for any 40 mHz output
LOCAL OSCILLATOR	
Frequency	9.800 GHz
Stability	± 5 KHz
Phase Noise	72 dBc @ 100 Hz 82 dBc @ 1 kHz 92 dBc @ 10 kHz 102 dBc @ 100 kHz

OTHER	
Size	1.75 x 19 x 13 inches
Operating Temperature	+20° to +50°C
Front Panel Functions	Power On/Off Illuminated Switch Input Attenuator (0 to 30 dB) Lock Alarm Indicator
Rear Panel Functions	100 to 240 VAC 50 to 60 Hz Input Fuse Holder Ka-Band Input Ku-Band Output BNC Loop through for external 100 MHz ref

Tampa Microwave Lab, Inc.

12160 Race Track Road - Tampa, Florida 33626-3111

Tel: (813) 855-2251 FAX: (813) 855-7741

Email sales: sales@tampamicrowave.com

<http://www.tampamicrowave.com>