

Test Loop Translator ATLT-Ka100 model



Advantages

- Converts Ka-band 30.0 31.0 GHz to 20.2 21.2 GHz
- Cost effective solution
- 10 MHz high stability internal reference
- Front panel control (local)
- Full remote control (remote)

Operating Bands

| Basic Model | RF Input | RF Output | |
|-------------|-----------------|-------------|--|
| number | GHz | GHz | |
| ATLT- Ka100 | 30.0 - 31.0 GHz | 20.2 - 21.2 | |

^{*}Other frequencies are available, please consult the factory

Overview

The Advantech Wireless Test Loop Translators ATLT- Ka100 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 30.0 - 31.0 GHz operating frequency band, translating it to 20.2 - 21.2 GHz. Other frequency bands are also available. Please consult factory.

The flexible and comprehensive monitor and control features on the ATLT-Ka100 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



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| Product Features & Spe | cifications | | | |
|------------------------------|--------------------------------|-----------------------|--------------------------|----------------------------|
| RF Output | | RF Input | | |
| Frequency range | 20.2 - 21.2 | GHz | | 30.0 - 31.0 GHz |
| Output impedance | 50Ω | | Input level | 0 dBm max |
| Output VSWR | 1.5:1 max o | ver 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. | | | Mute/Un-mute |
| | 0.8 dB P-P r | nax. over any 40 MHz | | Total time is use |
| Gain stability | ±0.75 dB/15°C max. 0°+55°C | | Mechanical | |
| Spurious | -45 dBc In-b | and | Dimensions | Width 19" (482.6 mm) |
| | -55 dBm Out-of-band | | | Height 1U 1.75" (44.45 mm) |
| Group delay (over 40 MHz) | Linear | 0.02 ns/Hz | | Depth 20" (508 mm) |
| | Parabolic | 0.003 ns/MHz2 | Power Supply | |
| | Ripple | 1 ns p-p | Voltage | 90 – 265 VAC (47 – 63 Hz) |
| Phase noise | 10 Hz | -45 dBc | Power | 20W |
| | 100 Hz | -73 dBc | Connector | IEC 603320 10A |
| | 1000Hz | -83 dBc | Monitor and Control | |
| | 10 kHz | -93 dBc | RS 485 | DB9 |
| | 100 kHz | -103 dBc | RS 232 | DB9 |
| | 1 MHz | -115 dBc | 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 |

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