



Ku BAND TEST LOOP TRANSLATOR: ICS-TLT-KuB-V01

DESCRIPTION:

A Test Loop Translator (TLT) is a device used to evaluate the performance of satellite earth systems. The earth station transmits a signal to the TLT (instead of a satellite), the TLT, then converts this signal into an equivalent downlink signal that the Satellite would send back to the earth station. . A test loop translator (TLT) is a type of radio frequency converter or heterodyne, used to translate between uplink and downlink segments, to allow for "loop-back" testing and calibration of a satellite ground station without the need to interface with the satellite. The ICS Ku Band TLT, Model: ICS-TLT-KuB-V01, will operate in three bands with three different LOs and Controls. The TLT will accept Uplink Frequency, perform level control as set by the user and will output the downlink frequency. The System is provisioned with LAN interface for remote monitoring and Control



FEATURES:

- Tri-band Operation
- Provision for Ext. LO
- RS-422/LAN Interface for Remote Control
- Outdoor Construction (IP-67 Rated Chassis);

SPECIFICATIONS:

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|---------------------------|-----------------------|---------------------|--------------------|
| • Band-1 Input Frequency | : 12750 - 13500 MHz | • LO Step Size | : 1KHz |
| • Band-1 Output Frequency | : 10700 - 11450 MHz | • Conversion Loss | : 25-dB Max |
| • Band-1 LO Frequency | : 2050 MHz | • Level Control | : 25-dB Min |
| • Band-2 Input Frequency | : 12750 to 14000 MHz, | • I/O return Loss | : 15-dB Min |
| • Band-2 Output Frequency | : 10950 12200 MHz, | • Impedance | : 50 Ohm |
| • Band-2 LO Frequency | : 1800 MHz | • RF Input / Output | : N-type Connector |
| • Band-3 Input Frequency | : 13000 - 14500 MHz, | | |
| • Band-3 Output Frequency | : 10700 - 12200 MHz, | | |
| • Band-3 LO Frequency | : 2300 MHz | | |

APPLICATIONS: SATCOM, VSAT

INNOVATION COMMUNICATIONS SYSTEM LTD,

Survey No: 185, Door No: 1-55/11/KJ, Kalajyothi Bldg, Ground Floor, Masjid Banda, Kondapur, RR Dist
Hyderabad – 500 084 , Contact: 040-6785 5555