

Tri-band Satellite Simulator

Tampa Microwave's satellite simulator provides a compact easy to use solution as a training and evaluation tool for satellite earth terminals.



FEATURES

- Simulates C, X, and Ku (14.0-14.5 GHz) bands simultaneously
- Permits earth station set up without actual satellites available
- Compact with self contained antennas
- Easy to operate
- Ruggedized / Weatherproof Enclosure
- Light Weight- < 20 lbs
- Field Tested
- Simulates operation over 300 ft

SPECIFICATIONS

LTT-03-W-190

INPUT CONTROL AND POWER

AC Power 115 to 230 VAC @ 5 watts nominal

DC Power Optional

RF Input Signals

C Band 5.85 to 6.425 @ nominal -15 dBm

X Band 7.9 to 8.4 GHz @ nominal -15 dBm

Ku Band 14.0 to 14.5 @ nominal -15 dBm

Input levels are dependent on dish size, distance to simulator, and transmitter power.

RF Output Signals

C Band Band Selection per external controller command

X Band 3.625 to 4.20 GHz @ input level -30 dB attenuation setting

Ku Band 7.25 to 7.75 GHz @ input level -30 dB attenuation setting

11.70 to 12.20 GHz @ input level -30 dB attenuation setting

TRANSFER CHARACTERISTICS ALL BANDS

Phase Noise 10 dB (typical) better than IESS 308/309

Midband Gain 30 dB loss + attenuation setting (measured @ input/output antenna interfaces)

Gain Adjustment 35 dB continuously variable

Gain Ripple Full Band ± 1.5 dB max.

Gain Ripple per 80 MHz ± 0.75 dB max.

Phase Linearity per 5 MHz ± 10 deg max.

Frequency Translation Accuracy ± 5 kHz nominal

Inband Signal Related Spurious -50 dBc

LO Leakage -90 dBm max.

Image Rejection >50 dB

VSWR In and Out 2.0:1

Input and Output Antennas With nominal gains of 6 dB

1 dB compression Point 0 dBm at 0 dB attenuation

Group Delay ± 0.5 ns/40 MHz

SPECIFICATIONS

LTT-03-W-190
(continued)

PHYSICAL

Mechanical Dimensions	5.2H x 12.75D x 10.3W inches
Weight	<20 lbs
Front Panel Controls	30 dB attenuation (continuous) per band
Front Panel Indicators	Lock Alarms
Remote Switch Control (50 ft Cable)	Band Select (single or simultaneous), Lock indicators

ENVIRONMENTAL

Operating Temperature	0° to 50° C
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SPECIFICATIONS

LTT-03-W-197

All specifications same as LTT-03-W-190 except those stated below

Additional Output Frequencies	10.95-11.2 GHz 11.45-11.7 GHz 12.25-12.75 GHz
Mechanical Dimensions	6.0H x 14.0D x 12.0W inches
Weight	<30 lbs nominal

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