TAMPA MICROWAVE LOOP TEST TRANSLATORS are specifically 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.

OPTIONS

• HIGHER FREQUENCY STABILITY

• INPUT AND OUTPUT FILTERING

• RS 485 OR ETHERNET CONTROL

• EXTERNAL REFERENCE INPUT

• MULTIPLY FREQUENCY BANDS - REMOTE SELECT

• SUMMARY ALARM

• WEATHERIZED ENCLOSURES

• CUSTOM CONFIGURATIONS

STANDARD SINGLE BAND LOOP TEST TRANSLATORS

TABLE 1

<table>
<thead>
<tr>
<th>PART NUMBER *</th>
<th>INPUT FREQ.</th>
<th>OUTPUT FREQ.</th>
<th>INPUT CONN.</th>
<th>OUTPUT CONN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTT-2225-22-1RU</td>
<td>5.85 TO 6.425 GHz</td>
<td>3.625 TO 4.20 GHz</td>
<td>“N” FEMALE</td>
<td>“N” FEMALE</td>
</tr>
<tr>
<td>LTT-4900-21-1RU</td>
<td>5.850 TO 6.425 GHz</td>
<td>950 TO 1450 MHz</td>
<td>“N” FEMALE</td>
<td>“N” FEMALE</td>
</tr>
<tr>
<td>LTT-7375-21-1RU**</td>
<td>5.925 TO 6.425 GHz</td>
<td>950 TO 1450 MHz</td>
<td>“N” FEMALE</td>
<td>“N” FEMALE</td>
</tr>
<tr>
<td>LTT-1750-22-1RU</td>
<td>14.00 TO 14.50 GHz</td>
<td>12.25 TO 12.75 GHz</td>
<td>“SMA” FEMALE</td>
<td>“SMA” FEMALE</td>
</tr>
<tr>
<td>LTT-2300-22-1RU</td>
<td>14.00 TO 14.50 GHz</td>
<td>11.70 TO 12.20 GHz</td>
<td>“SMA” FEMALE</td>
<td>“SMA” FEMALE</td>
</tr>
<tr>
<td>LTT-3050-22-1RU</td>
<td>14.00 TO 14.50 GHz</td>
<td>10.95 TO 11.45 GHz</td>
<td>“SMA” FEMALE</td>
<td>“SMA” FEMALE</td>
</tr>
<tr>
<td>LTT-13050-21-1RU</td>
<td>14.00 TO 14.50 GHz</td>
<td>950 TO 1450 MHz</td>
<td>“SMA” FEMALE</td>
<td>“SMA” FEMALE</td>
</tr>
<tr>
<td>LTT-9800-22-1RU</td>
<td>29.75 TO 31.00 GHz</td>
<td>19.95 TO 21.10 GHz</td>
<td>“K” FEMALE</td>
<td>“K” FEMALE</td>
</tr>
</tbody>
</table>

*The TML part number indicates the LO frequency in MHz. LTT-“LOFREQ”-21-1RU.
** This LTT inverts the frequency spectrum of the input.

CONTINUED >
**SPECIFICATIONS**

**FUNCTIONAL:**

FREQUENCY STABILITY: +/- 2 PPM; +/- 0.01 ppm OPTIONAL

CONVERSION LOSS: 35 dB NOMINAL

GAIN ADJUSTMENT: 30 dB

GAIN FLATNESS FULL BAND: +/- 1.5 dB

GAIN FLATNESS OVER 40 MHz BW: +/- 0.4 dB

INPUT AND OUTPUT RETURN LOSS: 15 dB

INPUT AND OUTPUT ISOLATION: OPTIONAL

PHASE NOISE: -85 dBc @ 1 kHz
-95 dBc @ 10 kHz
-105 dBc @ 100 kHz

**OPERATIONAL CONTROLS:**

FRONT PANEL CONTROLS: POWER ON/OFF ILLUMINATED
GAIN ADJUST
LOCK ALARM INDICATOR

REAR PANEL CONTROLS: AC INPUT ADAPTOR
FUSE HOLDER
RF INPUT
RF OUTPUT

**OTHER:**

POWER REQUIREMENTS: 100-240 VAC 50 TO 60 Hz

OPERATING TEMPERATURE: +20° TO +50°C

SIZE: 1.75” X 19” X 20”

**STANDARD HOUSING**

[Diagram of the standard housing]