

SPECIFICATIONS

Output Frequency

Tuning range:	8 - 12.5 GHz										
Frequency step size:	100 kHz										
Frequency stability and accuracy (Ext ref):	Same as input										
Frequency stability and accuracy (Int ref):	±0.5 PPM (over temp range)										
Aging (After 2 months):	±1 PPM max per year @ 25°C										
Adjustability (typ.):	10 years										
Phase noise in dBc/Hz (typ.):	<table> <tr> <td>L(100 Hz)</td><td>-73</td> </tr> <tr> <td>L(1 kHz)</td><td>-83</td> </tr> <tr> <td>L(10 kHz)</td><td>-83</td> </tr> <tr> <td>L(100 kHz)</td><td>-90</td> </tr> <tr> <td>L(1 MHz)</td><td>-115</td> </tr> </table>	L(100 Hz)	-73	L(1 kHz)	-83	L(10 kHz)	-83	L(100 kHz)	-90	L(1 MHz)	-115
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L(1 kHz)	-83										
L(10 kHz)	-83										
L(100 kHz)	-90										
L(1 MHz)	-115										
Spurious (max.):	-60 dBc										
Harmonics (typ.):	-20 dBc										
Power out (min.):	12 dBm										
Output power variation (freq. & temp.):	3 dB										
Load VSWR:	2:1										

Input Frequency

Input reference frequency:	5 MHz, 10 MHz or Internal
Input ref. freq. level:	0 dBm ±3dB

Frequency Tuning / Alarm

Frequency control:	Serial RS-232 / RS-422 / RS-485
Acquisition time:	100 msec
Phase-lock indicator:	<p>High = lock (Open collector or CMOS / TTL)</p>

DC Power

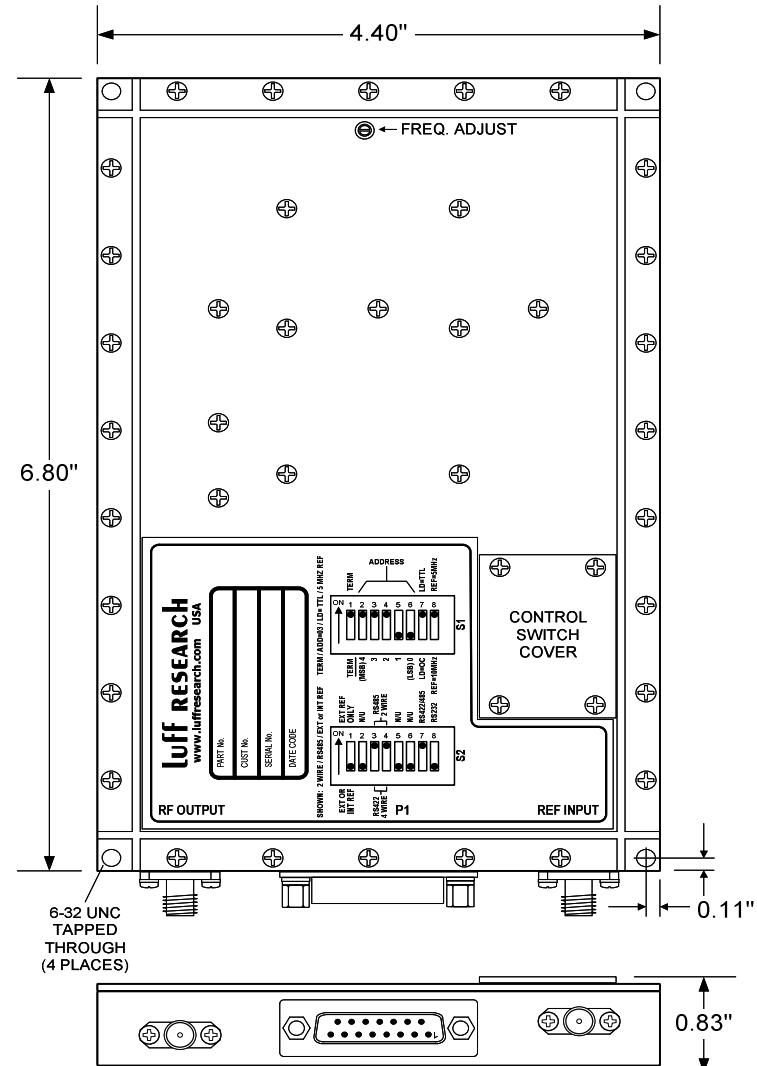
+5.2VDC (min) +7.0VDC (max)	800 mA
+15.0VDC (min) +17.0VDC (max)	150 mA

Mechanical

RF connectors:	SMA (F)
Digital & DC connection:	DB15 (M)

Environment

Operating temperature range (surface):	-10°C to 70°C
Storage temperature range:	-40°C to 85°C
Relative humidity (non-condensing):	90%RH @ 40°
Shock:	30 G / 10msec
Vibration:	4 G / 20 Hz - 20 kHz
EMI leakage:	-90 dBc



Notes:

1. This is an EMI gasketed package with a filtered DB15 connector.
2. Use Rev.M (04-16-09) of the Interface Definition for this unit.

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PRODUCT DATA SHEET
TLSD FREQUENCY SYNTHESIZER
Model: TLSD800012500/100K 09/01/11