

## SPECIFICATIONS

### Output Frequency

Tuning range:	8 - 12 GHz	
Frequency step size:	100 kHz	
Frequency stability and accuracy (Ext ref):	Same as input	
Frequency stability and accuracy (Int ref):	±1 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.):	L(100 Hz)	-73
	L(1 kHz)	-83
	L(10 kHz)	-83
	L(100 kHz)	-90
	L(1 MHz)	-115
Spurious:	-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:	High = lock
	(Open collector or CMOS / TTL)

### DC Power

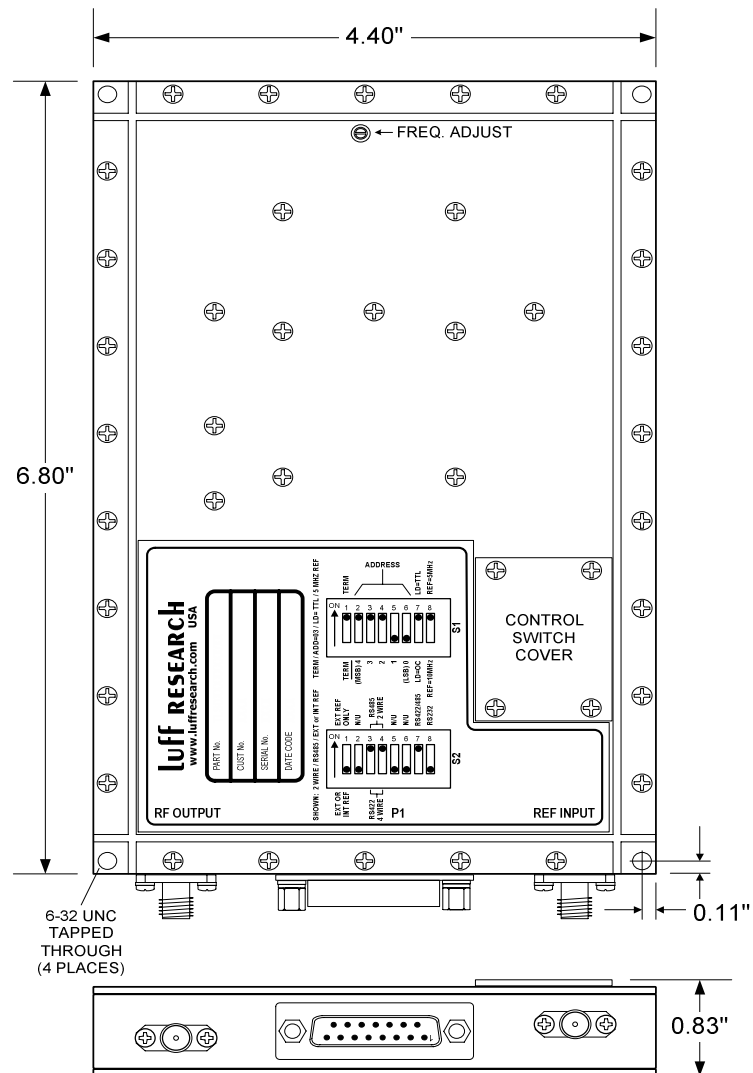
+5.2VDC (min) +7.0VDC (max)	800 mA
+15.0VDC (min) +17.0VDC (max)	150 mA

### Mechanical

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

### Environment

Operating temperature range (surface):	0°C to 60°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: TLSD800012000/100K		03/21/08