SPECIFICATIONS

Output Frequency

14 - 18 GHz
200 kHz
Same as input
±1 PPM (over temp range)
±1 PPM max per year @ 25°C
10 years
L(100 Hz) -68
L(1 kHz) -80
L(10 kHz) -85
L(100 kHz) -85
L(1 MHz) -115
-60 dBc
-60 dBc
10 dBm
±3 dB
1.5:1

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

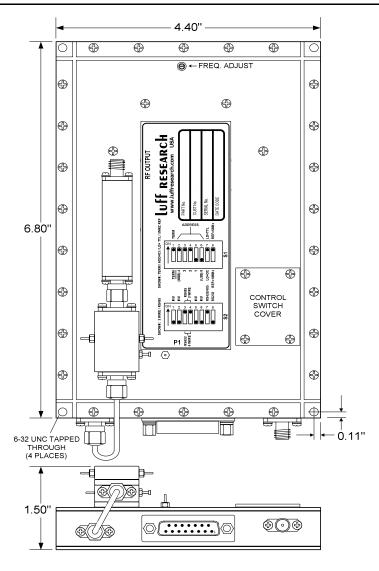
+5.2VDC (min) +7.0VDC (max)	900 mA
+15.0VDC (min) +17.0VDC (max)	150 mA

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 (1000pF per pin).
- 2. Use Rev. M (04-16-09) of the Interface Definition for this unit.

luff research, inc.

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PRODUCT DATA SHEET

TLSD FREQUENCY SYNTHESIZER

Model: TLSD1400018000/200K 03/07/08