

## SPECIFICATIONS

### Output Frequency

Tuning range:	6780 - 7880 MHz	
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.):	L(100 Hz)	-76
	L(1 kHz)	-92
	L(10 kHz)	-98
	L(100 kHz)	-100
	L(1 MHz)	-120
Spurious (max.):	-60 dBc	
Harmonics (typ.):	-20 dBc	
Power out (min.):	+13 dBm	
Output power variation (freq. & temp.):	3 dB	
Load VSWR:	2:1	

### Input Frequency

Input reference frequency:	5, 10, 100 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 (LD):	High = lock
	(Open collector or CMOS / TTL)

### DC Power

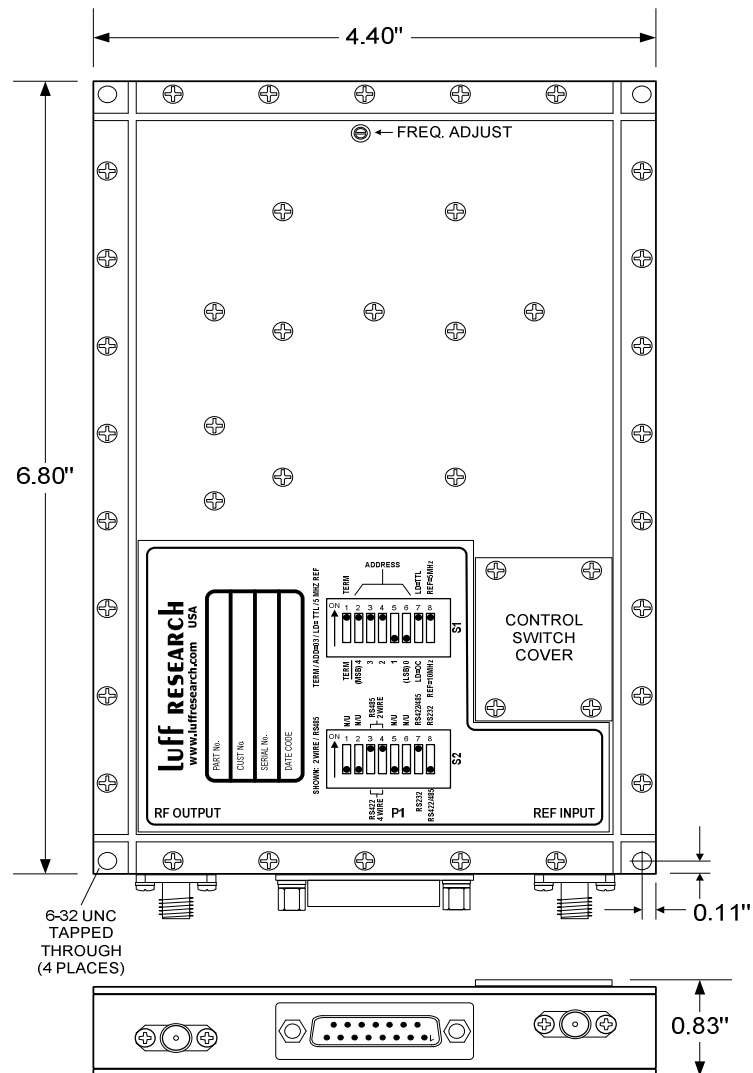
+5.2 Vdc (min) +7.0 Vdc (max)	750 mA
+15.0 Vdc (min) +17.0 Vdc (max)	150 mA

### 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. This unit has the feature that when the input reference is removed, the internal reference is automatically switched in as the reference for the synthesizer.

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PRODUCT DATA SHEET	
TLSE FREQUENCY SYNTHESIZER	
Model: TLSE67807880/100K	08/17/11