

SPECIFICATIONS

Output Frequency

Tuning range:	50 - 180 MHz	
Frequency step size:	1 kHz	
Frequency stability and accuracy:	±5 PPM	
Phase noise in dBc/Hz (typ.):	L(100 Hz)	-85
	L(1 kHz)	-90
	L(10 kHz)	-95
	L(100 kHz)	-110
	L(1 MHz)	-130
Spurious:	-60 dBc	
Harmonics (typ.):	-20 dBc	
Power out (min.):	+13 dBm	
Output power variation (freq. & temp.):	2 dB	
Load VSWR:	2:1	

Input Frequency

Input reference frequency:	Internal Reference
Input ref. freq. level:	N/A

Frequency Tuning / Alarm

Frequency control:	Parallel Coded TTL
Acquisition time (typ.):	100 msec
Phase-lock indicator:	High = lock (open collector)

DC Power

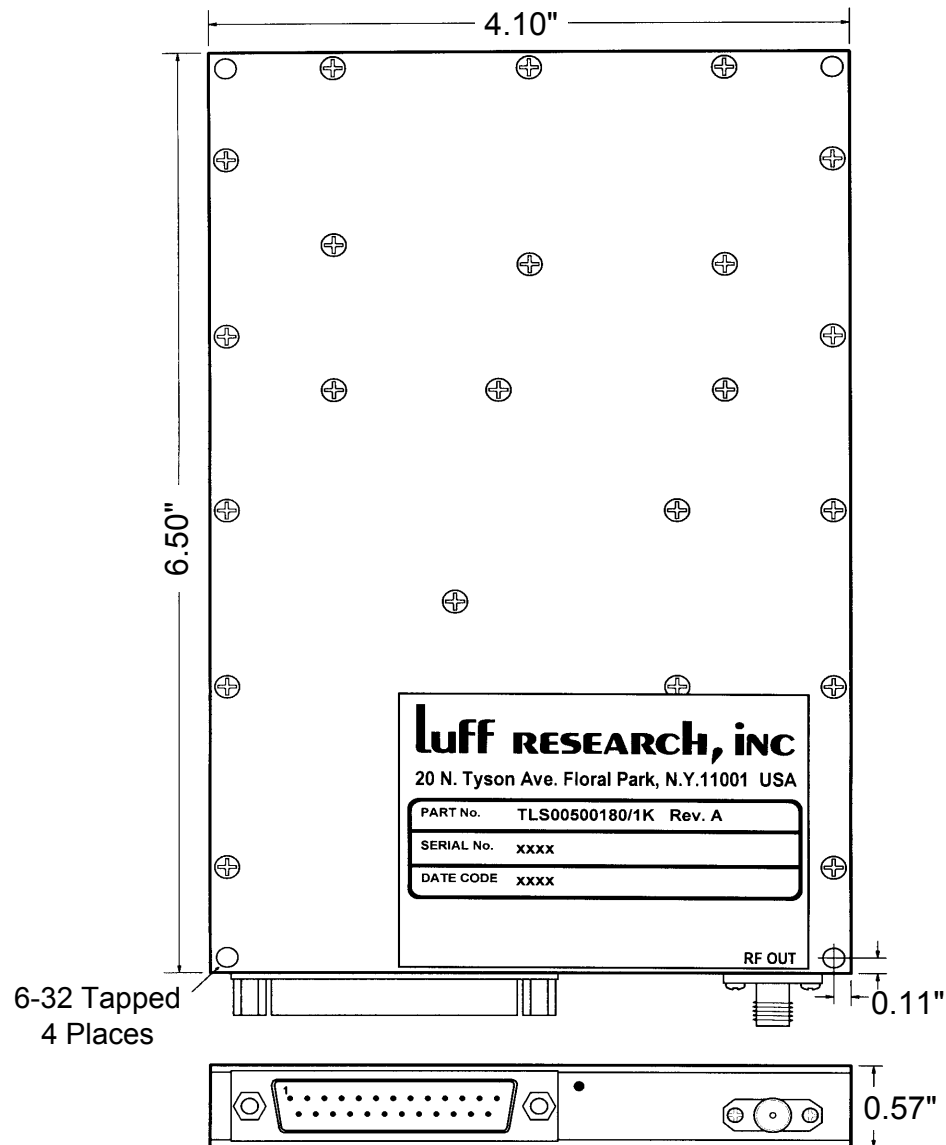
+12.0VDC	600 mA
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Mechanical

RF connectors:	SMA (F)
Digital & DC connection:	DB25 (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



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PRODUCT DATA SHEET
TLS FREQUENCY SYNTHESIZER

Model: TLS00500180/1K	Rev. C	06/09/03
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