

SPECIFICATIONS

Output Frequency

Tuning range:	500 - 3125 MHz	
Frequency step size:	100 kHz	
Frequency stability and accuracy:	Same as input	
Phase noise in dBc/Hz (typ.):	L(100 Hz)	-75
	L(1 kHz)	-90
	L(10 kHz)	-90
	L(100 kHz)	-95
	L(1 MHz)	-120
Spurious:	-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 (note 1):	10 MHz
Input ref. freq. level:	0 dBm \pm 3 dB

Frequency Tuning / Alarm

Frequency control: (please specify)	Parallel BCD Coded CMOS Input or Serial RS-485
Acquisition time (typ.):	100 msec
Phase-lock indicator:	High = lock (open collector)

DC Power (each unit)

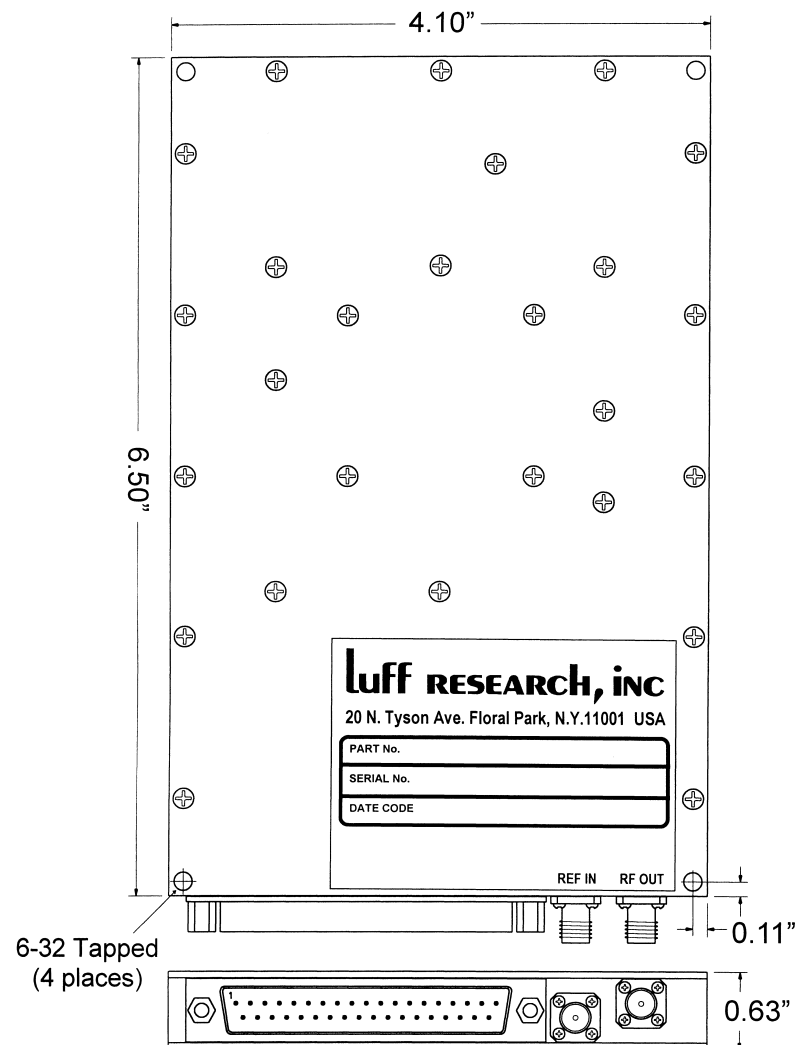
+5.2VDC (min) +7.0VDC (max)	600 mA
+15.0VDC (min) +17.0VDC (max)	200 mA

Mechanical

RF connectors:	SMA (F)
Digital & DC connection:	DB37 (M) / DB9 (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



Notes:

1. This unit is available with internal reference (stability \pm 1 PPM).

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PRODUCT DATA SHEET		
TLS FREQUENCY SYNTHESIZER		
Model: TLS05003125/100K		07/27/04