

## SPECIFICATIONS

### Output Frequency

Tuning range:	8500 - 9500 MHz	
Frequency step size:	500 Hz	
Freq. stability and accuracy (Ext. Ref):	Same as Input	
Freq. 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)	-65
	L(1 kHz)	-70
	L(10 kHz)	-75
	L(100 kHz)	-95
	L(1 MHz)	-120
Spurious (typ.):	-60 dBc	
Harmonics (typ.):	-20 dBc	
Power out (min.):	+13 dBm	
Output power variation (freq. & temp.):	2 dB (max)	
VSWR:	2:1	

### Input Frequency

Input reference frequency:	10 MHz
Input level:	0 dBm ±3 dB

### Frequency Tuning / Alarm

Frequency control:	3 Wire Serial Input (TTL)
Acquisition time:	1 msec
Phase-lock indicator:	High = lock (TTL compatible)

### DC Power

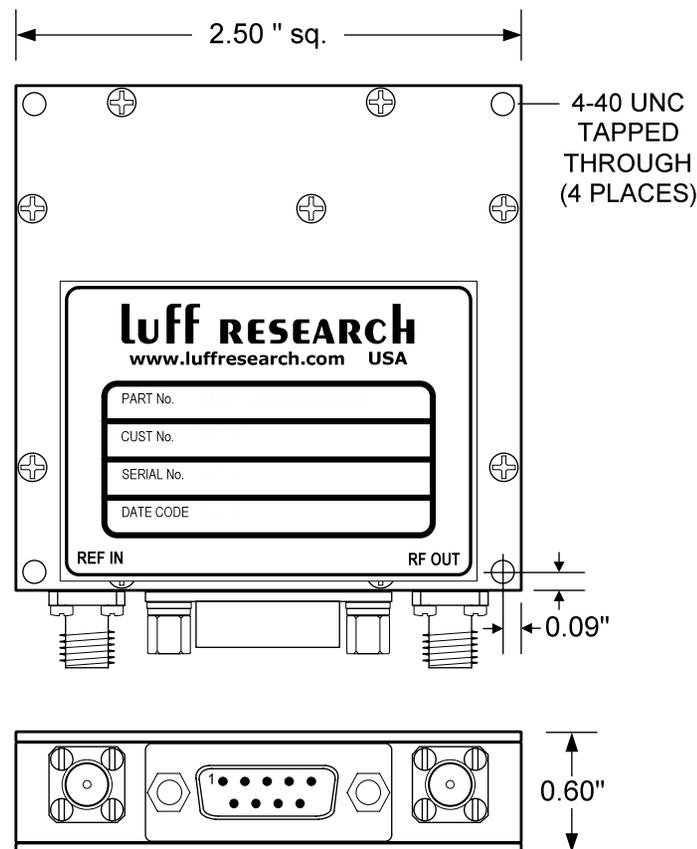
+5.2VDC (min.) to +6VDC (max.):	450 mA (max.)
Internal regulator	

### Mechanical

RF connector:	SMA (F)
Digital & DC connection:	DB9 (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



#### NOTES:

1. These unit are available with an internal TCXO. (Model No. SLSM4-85009500/500H/INT)
2. The Frequency adjustment is located on the bottom of the unit and is only applicable on units with internal reference.
3. The 'REF IN' connector is not provided on units with internal reference.

<b>luff RESEARCH, inc.</b>		
FLORAL PARK, NY		
PHONE: (516) 358-2880 FAX: (516) 358-2757		
<b>PRODUCT DATA SHEET</b>		
<b>SLSM4 FREQUENCY SYNTHESIZER</b>		
Model: SLSM4-85009500/500H	Rev. A	06/02/08