

## FREQUENCY SYNTHESIZER SPECIFICATIONS

### Output Frequency

Output Frequency Range:	1 - 2 GHz		
Frequency step size:	1 MHz		
Frequency stability and accuracy			
<input type="checkbox"/> External reference unit	Same as input		
<input checked="" type="checkbox"/> Internal reference unit	±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.) @ 2 GHz:		Typ.	Max.
	L(100 Hz)	-70	
	L(1 kHz)	-80	
	L(10 kHz)	-85	
	L(100 kHz)	-90	
	L(1 MHz)	-130	
L(10 MHz)	-150		
Spurious (typ.):	-60 dBc		
Harmonics (typ.):	-20 dBc		
Power out (min.):	+13 dBm		
Power variation (freq. & temp.) (max.):	±3 dB		
Load VSWR (max.):	2:1		

### Reference Frequency

Input reference frequency:	Internal Reference
Input level:	N/A

### Frequency Tuning / Alarm

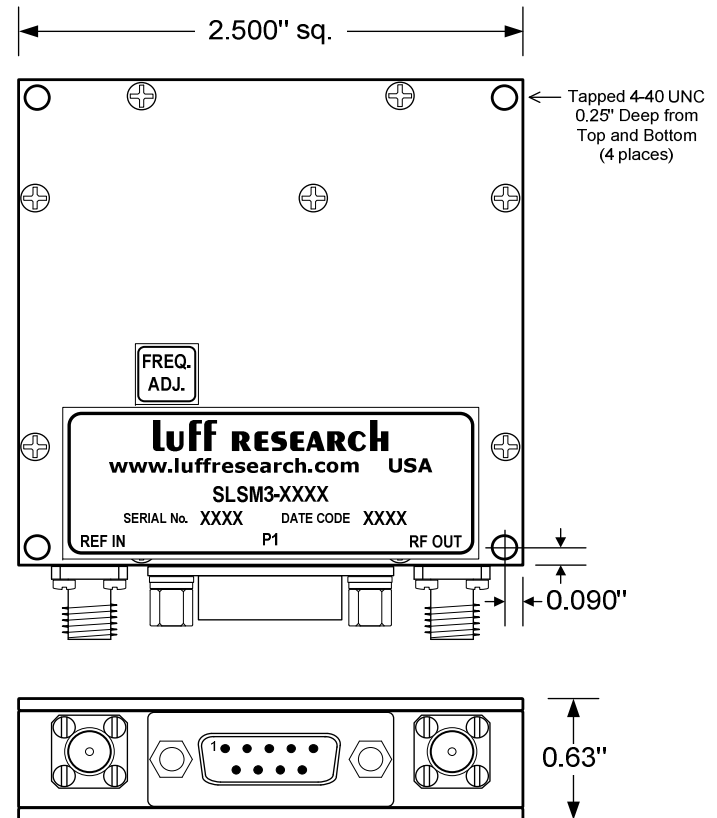
Frequency control:	SPI Interface		
Acquisition time (typ):	100 µsec		
Phase-lock indicator (LD), High = lock:	<input type="checkbox"/> Open collector	<input checked="" type="checkbox"/> TTL	

### DC Power

+5.5 Vdc ±0.5 V	650 mA (max.)
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### 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. This unit is available with an external reference input. (Model No. SLSM3-12-1M-SPI)
2. The Frequency adjustment is only applicable on units with internal reference.
3. The '10 MHz IN' connector is not provided on units with internal reference.
4. These units have a non-volatile memory feature and at power on the unit will return to the last set frequency.

**luff RESEARCH, INC. USA**

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PRODUCT DATA SHEET

SLSM3 FREQUENCY SYNTHESIZER

Model: SLSM3-12-1M-INT-SPI

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