

SPECIFICATIONS

Output Frequency

Tuning range:	4 - 8 GHz	
Frequency step size:	1 kHz	
Freq. stability and accuracy (Ext. Ref):	Same as Input	
Freq. 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)	-75
	L(1 kHz)	-85
	L(10 kHz)	-90
	L(100 kHz)	-90
	L(1 MHz)	-115
Spurious (typ.):	-60 dBc	
Harmonics (typ.):	-20 dBc	
Power out (min):	+13 dBm	
Output power variation (freq. & temp.):	3 dB	
VSWR:	2:1	

Input Frequency

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

Frequency Tuning / Alarm

Frequency control:	RS-485
Acquisition time (typ):	< 5 msec
Phase-lock indicator:	High = lock (TTL compatible)

DC Power

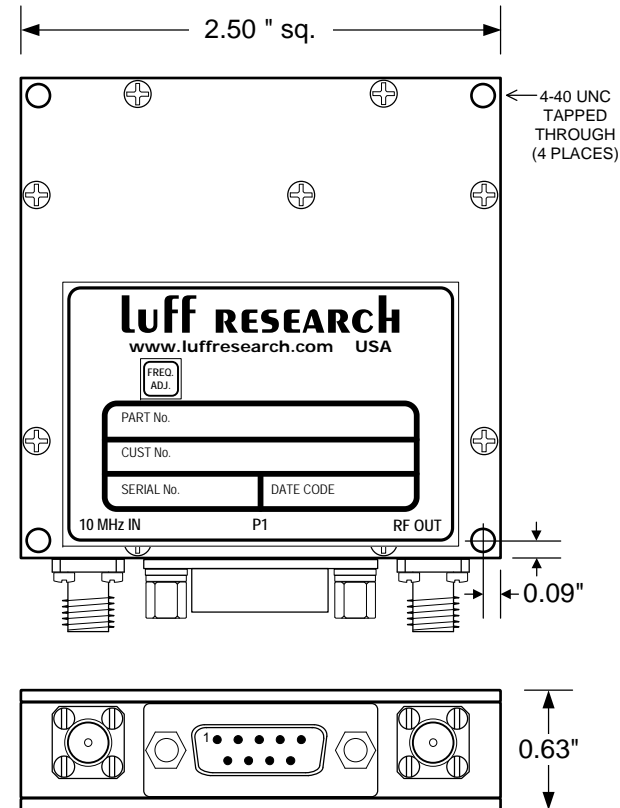
+5.0 Vdc (min.) to +5.5 Vdc (max.):	650 mA (max.)
Internal regulator	

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. SLSM5-48-INT)
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. There is a very small set of frequencies at which a spectral anomaly occurs where the close in spurious are >-60 dBc. These can often be eliminated by shifting Fo by 1 or 2 kHz.

luff RESEARCH, inc.		
FLORAL PARK, NY		
PHONE: (516) 358-2880 FAX: (516) 358-2757		
PRODUCT DATA SHEET		
SLSM5 FREQUENCY SYNTHESIZER		
Model:SLSM5-48		06/01/10