FREQUENCY SYNTHESIZER SPECIFICATIONS

Output Frequency

1 - 4 GHz		
1 kHz		
Same as input		
±0.5 PPM (over temp range)		
±1 PPM max per year @ 25°C		
10 years		
	Тур.	Max.
L(100 Hz)	-77	
L(1 kHz)	-91	
L(10 kHz)	-102	
L(100 kHz)	-100	
L(1 MHz)	-132	
L(10 MHz)		
	-60	dBc
-20 dBc		
	+15 / +13	dBm
±3 dB		
	2:1	
	±0.5 PP ±1 PPM r L(100 Hz) L(1 kHz) L(10 kHz) L(100 kHz) L(1 MHz)	Same as inposed as inposed as inposed as inposed as inposed at 10 years and 10 years are incorrectly as incorre

Reference Frequency

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

Frequency Tuning / Alarm

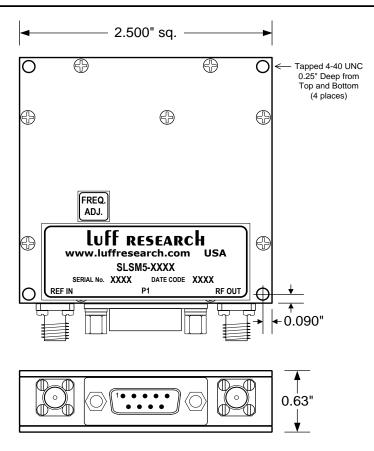
Frequency control:	RS-485
Acquisition time (typ):	< 5 msec
Phase-lock indicator (LD), High = lock:	Open collector (note 8)

DC Power

+5.5 Vdc ±0.5 V	850 mA (r	max.)

Environment

Operating temperature range (surface):	-5°C to +65°C (note 7)
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
Specifications @:	+25°C



NOTES:

- 1. This unit is available with an internal TCXO (±0.5 PPM) Model No. SLSM5-14-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. This synthesizer employs a fractional ÷N architecture. With an external input, the output frequency has the same stability as the input and is typically accurate to within 2 Hz.
- 5. 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.
- 6. These units have a non-volatile memory feature and at power on the unit will return to the last set frequency.
- 7. Proper heatsinking is required to keep surface temperature less than +65°C.
- 8. For TTL compatible lock detector output, add -T at the end of the model number

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PRODUCT DATA SHEET

FREQUENCY SYNTHESIZER

Model: SLSM5-14 Rev. A 06/01/17