

SPECIFICATIONS

Output Frequency

Tuning range:	1000 - 2000 MHz
Frequency step size:	1 kHz
Frequency stability and accuracy:	Same as input
Phase noise in dBc/Hz (typ.):	L(100 Hz) -70
	L(1 kHz) -80
	L(10 kHz) -90
	L(100 kHz) -100
	L(1 MHz) -130
Spurious (typ.):	-60 dBc
Harmonics (typ.):	-20 dBc
Power out (min.):	+13 dBm
Output power variation (freq. & temp.):	2 dB (max)
Load VSWR:	2:1

Input Frequency

Input reference frequency:	10 MHz
Input ref. freq. level:	0 dBm \pm 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

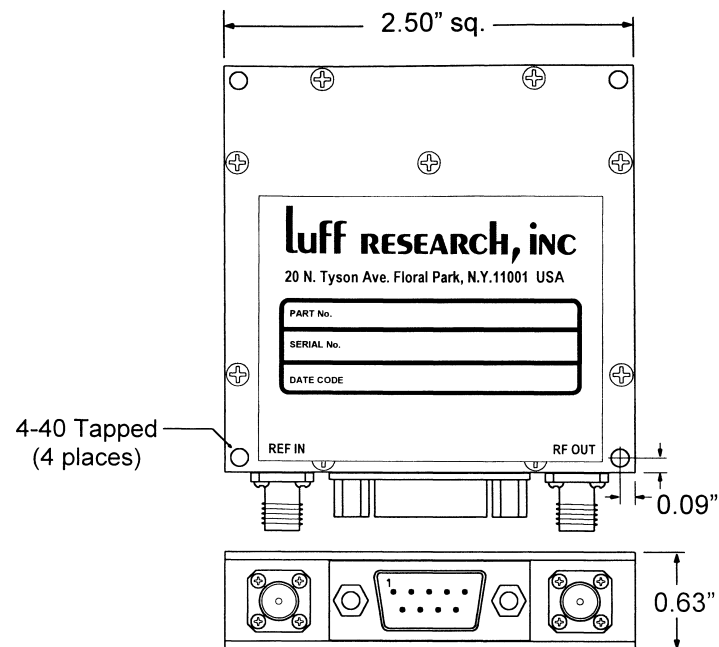
+5.2VDC (min.) to +6VDC (max.)	350 mA (max)
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Mechanical

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

Environment

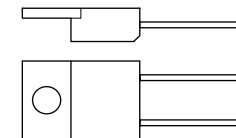
Operating temperature range (surface):	0°C to 60°C
Storage temperature range:	-40°C to 85°C
Relative humidity (non-condensing):	90%RH @ 40°
Shock:	30 G / 10msec
Vibration:	4 G / 20 Hz - 20 kHz



NOTES:

- The stability of units with internal reference is \pm 1 PPM over the temperature range.
- The Frequency adjustment is located on the bottom of the unit and is only applicable on units with internal reference.
- The 'REF IN' connector is not provided on units with internal reference.
- Vcc is +5.2VDC **at the unit**.
A power dropping resistor will be supplied as required for a specific Vcc, upon request .

SUPPLIED DROPPING RESISTOR



CADDOCK ELECTRONICS, INC.
P/N: MP820 PACKAGE: TO-220

Luff RESEARCH, inc.

FLORAL PARK, NY

PHONE: (516) 358-2880 FAX: (516) 358-2757

PRODUCT DATA SHEET

SLSM4 FREQUENCY SYNTHESIZER

Model: SLSM4-10002000/1K	Rev. A	06/09/03
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