

SPECIFICATIONS

Output Frequency

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|---|----------------------------|------|
| Tuning range: | 8 - 12 GHz | |
| Frequency step size: | 100 kHz | |
| Frequency stability and accuracy (Ext ref): | Same as input | |
| Frequency 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) | -85 |
| | L(100 kHz) | -90 |
| | L(1 MHz) | -115 |
| Spurious: | -60 dBc | |
| Harmonics (typ.): | -20 dBc | |
| Power out (min.): | 13 dBm | |
| Output power variation (freq. & temp.): | 3 dB | |
| Load VSWR: | 2:1 | |

Input Frequency

| | |
|----------------------------|------------|
| Input reference frequency: | 10 MHz |
| Input ref. freq. level: | 0 dBm ±3dB |

Frequency Tuning / Alarm

| | |
|--|---|
| Frequency control: <i>(please specify required interface)</i> | Parallel BCD Coded CMOS Input or Serial RS-485 |
| Acquisition time: | 100 msec |
| Phase-lock indicator: | High = lock (open collector) |

DC Power

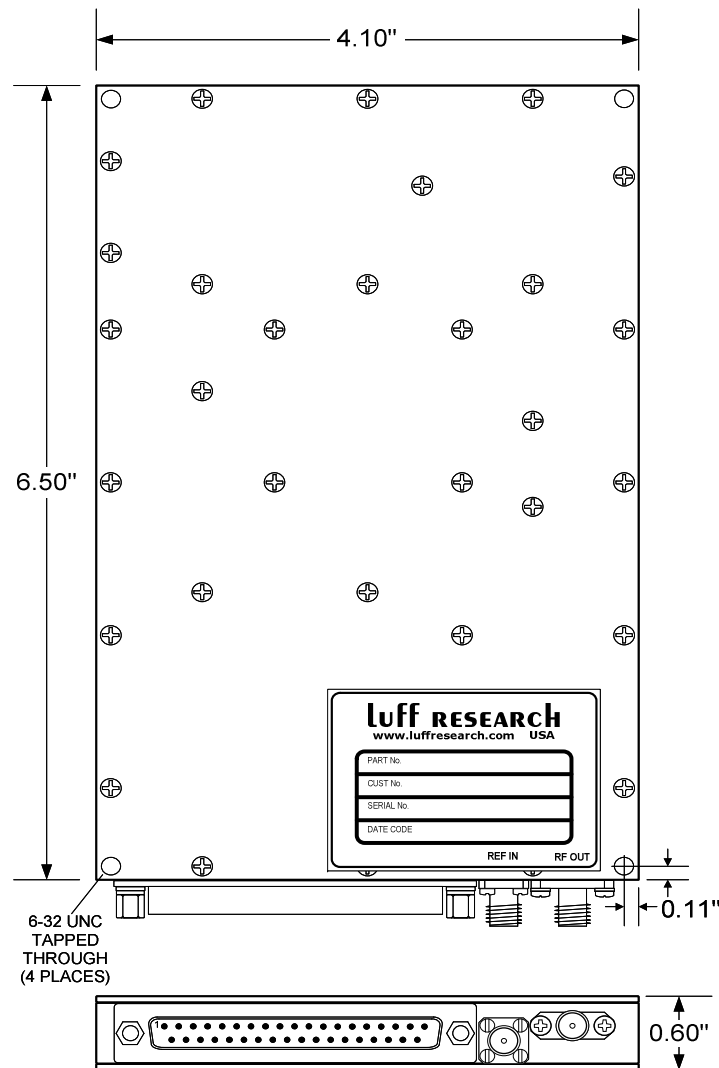
| | |
|---------------------------------|--------|
| +5.2 Vdc (min) +7.0 Vdc (max) | 850 mA |
| +15.0 Vdc (min) +17.0 Vdc (max) | 150 mA |

Mechanical

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|--------------------------|----------|
| RF connectors: | SMA (F) |
| Digital & DC connection: | DB37 (M) |

Environment

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|--|----------------------|
| 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. TLS800012000/100K/INT)
2. Units come standard with a serial interface. For Parallel units order Model No. TLS800012000/100K/P

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|---|--|----------|
| luff RESEARCH, inc. | | |
| FLORAL PARK, NY | | |
| PHONE: (516) 358-2880 FAX: (516) 358-2757 | | |
| PRODUCT DATA SHEET | | |
| TLS FREQUENCY SYNTHESIZER | | |
| Model: TLS800012000/100K | | 06/01/08 |