

Electrical Specifications

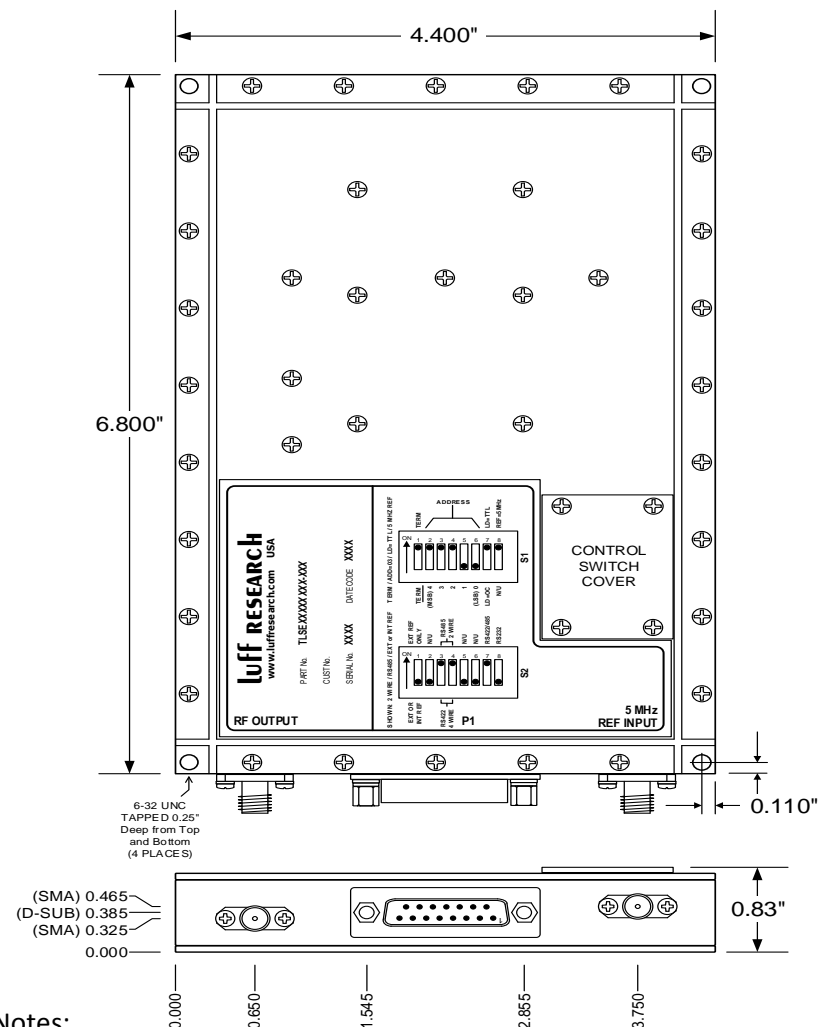
Frequency	9 - 11 GHz	
Frequency Step Size	125 KHz	
Frequency Stability and Accuracy		
External Ref.	Same as input	
Internal Ref.	$\leq \pm 5 \times 10^{-7}$ (Over Temp Range)	
Aging (after 2 months)	± 1.0 PPM max per year @ 25°C	
Adjustability	10 years	
Phase noise (dBc/Hz)	Typ.	Max.
L(10 Hz)	-60	-44
L(100 Hz)	-88	-62
L(1 kHz)	-102	-87
L(10 kHz)	-102	-93
L(100 kHz)	-110	-100
L(1 MHz)	-121	-100
L(10 MHz)	-135	-130
Spurious		-60 dBc
Harmonics	-17 dBc	
DC Power		
+5.2 VDC to +6.0 VDC	1.4 A	
+15.0 VDC to +17.0 VDC	Start-up: 0.4A Steady: 0.3A	
Power Out (nom. / min. @ 25°C)	+15 / +13 dBm	
Power Variation (typ.)	2 dB	
Load VSWR (max.)	2:1	
Frequency Control	RS-232 RS-422 RS-485	
Acquisition Time (typ.)	50 ms	
Phase-Lock Indicator (LD)	Open Collector (note 5)	

Reference Specifications

Input Reference Frequency	5 MHz
Input Level	0 dBm \pm 3 dBm

Environment Specifications

Operating Temp. Range (surface)	-5°C to 65°C (note 4)
Storage Temp. Range	-40°C to 85°C
Relative Humidity (non-condensing)	90%RH @ 40°C
Shock	30G / 10 ms
Vibration	4G / 20 Hz - 20 kHz



Notes:

1. This is an EMI Gasketed Package with a filtered DB15(M) connector.
2. This unit features an automatic switch to an internal reference TCXO (± 0.5 PPM) when the external reference is removed.
3. Input frequencies greater than 10 Hz will be cleaned up.
4. **Proper heatsinking will be required to keep surface temp. lower than +65°C.**
5. TTL Compatible Lock Detect available upon quote.

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Product Data Sheet

Triple Loop Synthesizer Rev. E

TLSE-911-125K-5

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