

## Electrical Specifications

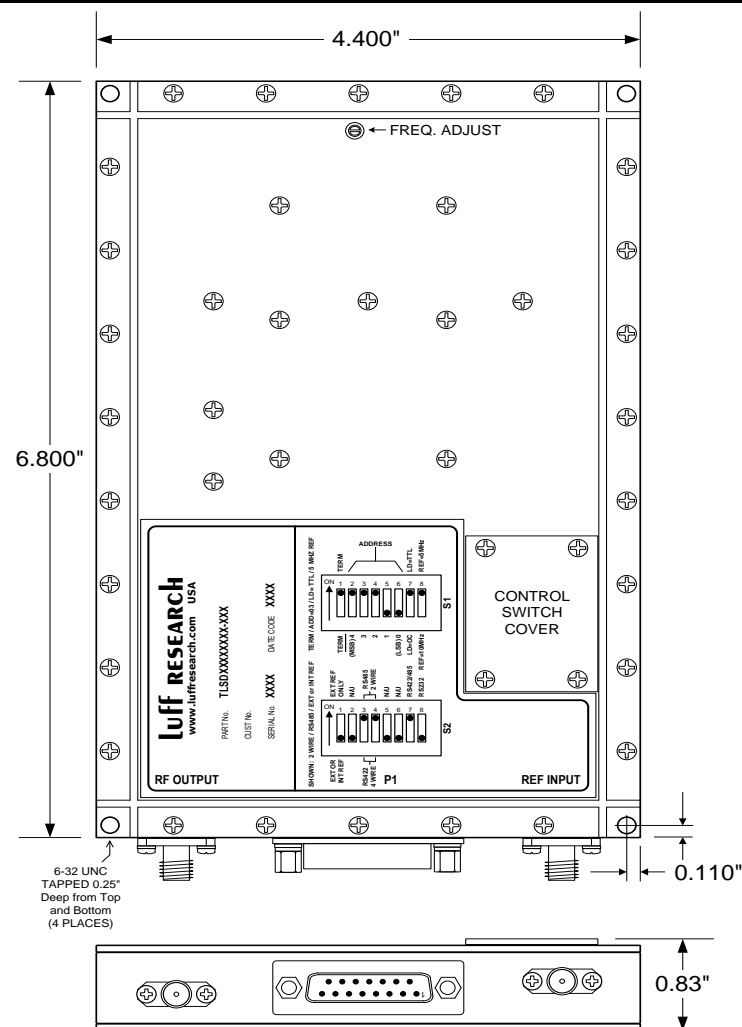
Frequency	6780 - 7880 MHz	
Frequency Step Size	100 KHz	
Frequency Stability and Accuracy		
External Ref.	Same as input	
Internal Ref.	$\leq \pm 0.5$ PPM (Over Temp Range)	
Aging (after 2 months)	$\pm 1.0$ PPM max per year @ 25°C	
Adjustability	10 years	
Phase noise (dBc/Hz)	Typ.	Max.
L(10 Hz)		
L(100 Hz)	-75	-70
L(1 kHz)	-85	-79
L(10 kHz)	-85	-82
L(100 kHz)	-93	-89
L(1 MHz)	-117	-100
L(10 MHz)		-125
Spurious		-60 dBc
Harmonics	-20 dBc	
DC Power		
+5.2 VDC to +7.0 VDC	750 mA	
+15.0 VDC to +17.0 VDC	150 mA	
Power Out (nom. / min. @ 25°C)	+15 / +13 dBm	
Power Variation (typ.)	4 dB	
Load VSWR (max.)	2:1	
Frequency Control	RS-232   RS-422   RS-485	
Acquisition Time (typ.)	100 ms	
Phase-Lock Indicator (LD)	Open Collector (note 4)	

## Reference Specifications

Input Reference Frequency	5/10 MHz or Internal
Input Level	0 dBm $\pm$ 3 dBm

## Environment Specifications

Operating Temp. Range (surface)	-5°C to 65°C (note 3)
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 ( $\pm 0.5$  PPM) when the external reference is removed.
3. **Proper heatsinking will be required to keep surface temp. lower than +65°C.**
4. 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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