

Output Frequency

Output Frequency Range (F_o):	11550 - 12300 MHz		
Frequency step size:	500 kHz		
Frequency stability and accuracy :	Same as reference input		
Phase noise in dBc/Hz (note 5):		Typ.	Max
	L(10 Hz)	-56	-56
	L(100 Hz)	-83	-76
	L(1 kHz)	-95	-91
	L(10 kHz)	-95	-91
	L(100 kHz)	-97	-96
	L(1 MHz)	-110	-110
	L(10 MHz)	-130	-126
Spurious (max) (note 1):	-60 dBc		
Harmonics (typ):	-30 dBc		
Power out (min.) @ 25°C:	+13 dBm		
Power variation (freq. & temp.) (max.):	± 3 dB		
VSWR (max):	2:1		

Input Reference Frequency

frequency:	100 MHz
level:	0 dBm ± 3 dB

Frequency Tuning / Alarm

Frequency control:	Serial RS-232 / RS-422 / RS-485
Acquisition time (typ):	50 msec
Phase-lock indicator (LD), High = lock:	TTL

DC Power

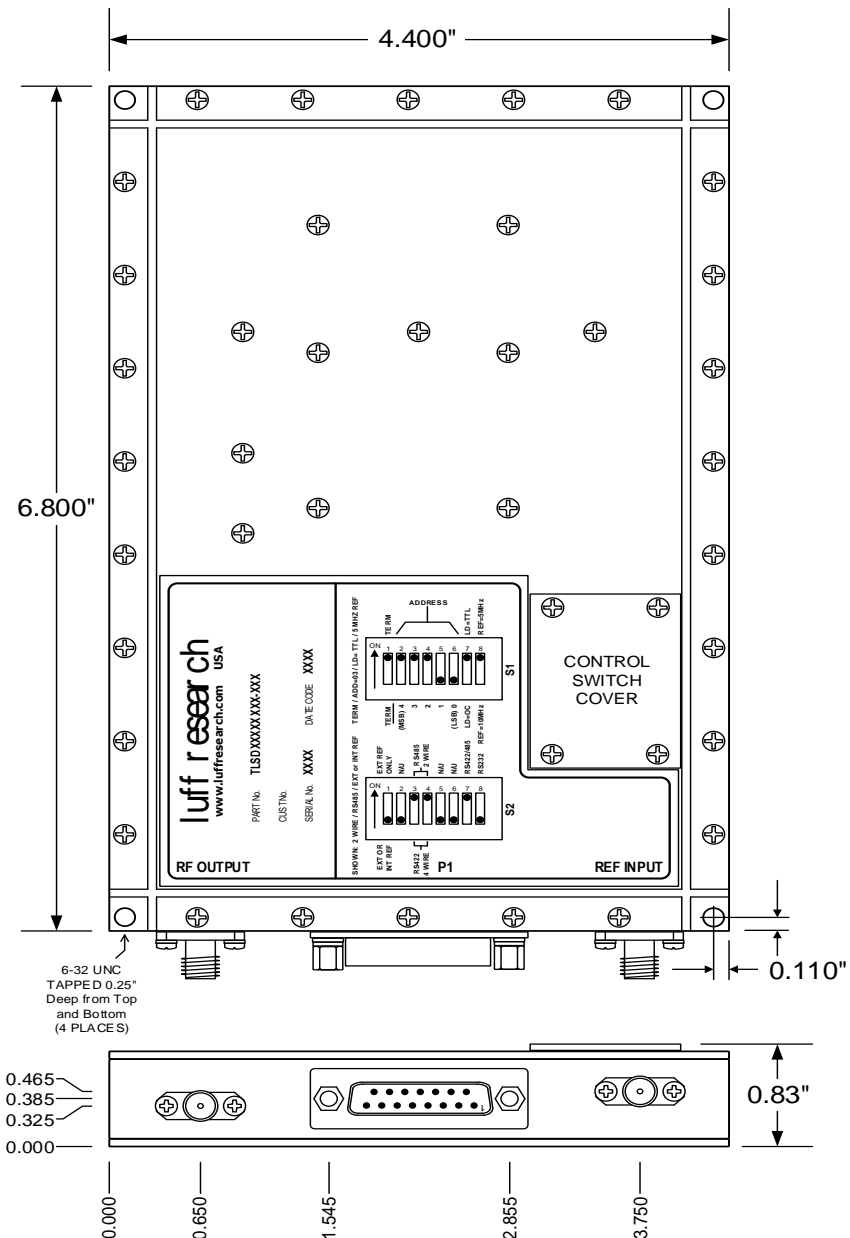
+5.2 Vdc (min.) +6.0 Vdc (max.)	1.4 A
+15.0 Vdc (min.) +17.0 Vdc (max.)	150 mA

Environment

Operating temperature range (surface):	-40°C to 60°C (note 2)
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. Spurious (max) **Design goal of -70dBc.**
2. Surface temperature of unit should be less than +65°C.
3. This is an EMI gasketed package with a filtered DB15(M) connector.
4. This unit is RoHS Compliant.



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PRODUCT DATA SHEET

TLSE FREQUENCY SYNTHESIZER

Model: TLSE-1155012300-500K-T-R

Rev. E

08/14/20