

## SINGLE LOOP FAST SWITCHER FREQUENCY

### SLFS SERIES: .1 - 5 GHz (IN BAND S)

#### FEATURES

- Multi-octave in a single unit (<2 GHz)
- 1 MHz standard step size
- Custom Frequencies
- Small Package size

#### OPTIONS

- Custom frequency bands
- Custom packaging
- Optional Granule Step Size
- Fast switching option



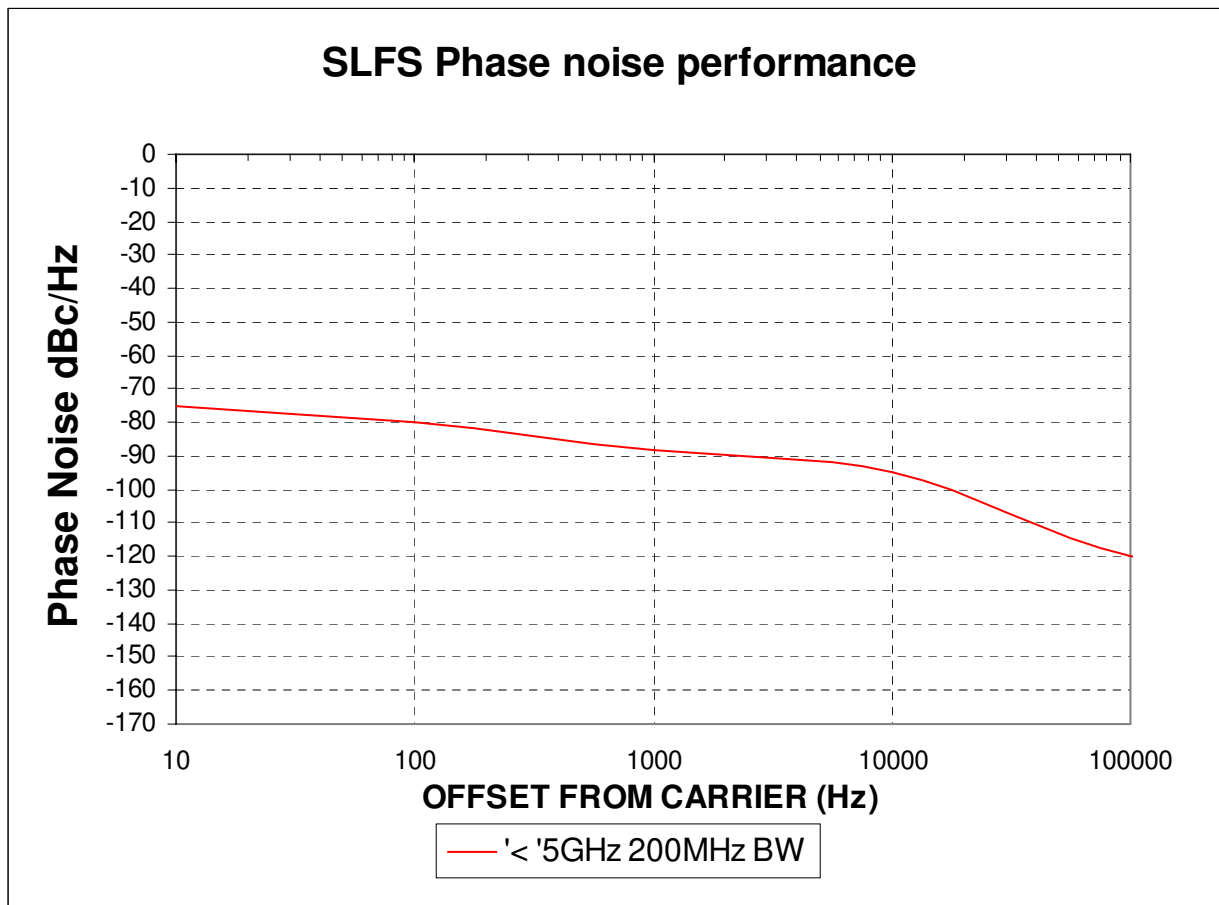
### *SLFS GUI INTERFACE (for serial programming):*

Now available at <http://amps.miteq.com/Amps2007/synthesizers/SLFS-GUI.zip>

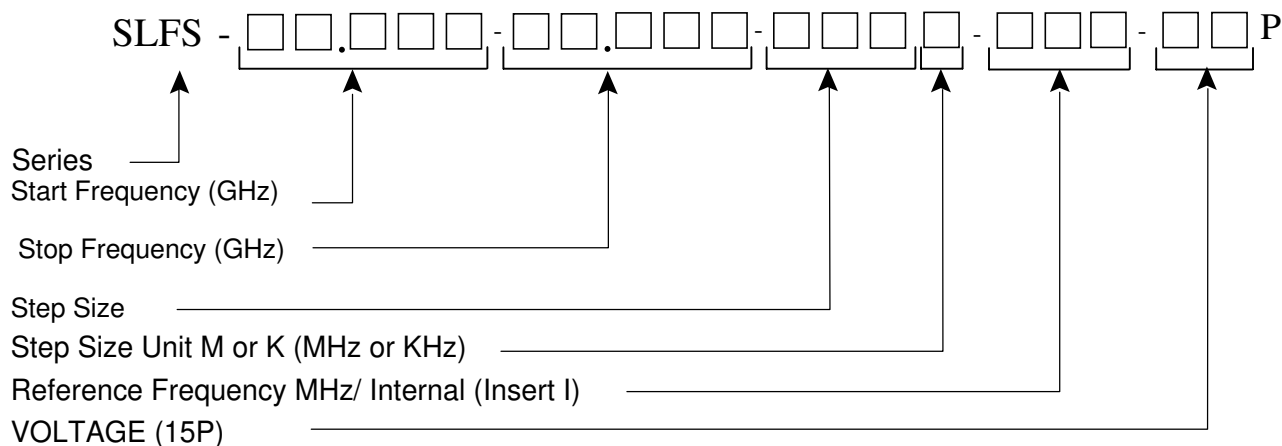
#### ELECTRICAL SPECIFICATIONS

OUTPUT FREQUENCY RANGE	.1 - 5GHz (250 MHz BW, Typical)
OUTPUT POWER	+13 dBm Minimum
OUTPUT POWER VARIATION	+/- 2 dB
FREQUENCY STEP SIZE	1MHz
REFERENCE FREQUENCY	10MHz ( Internal reference available)
REFERENCE POWER	+/- 3dBm
HARMONIC	-20 dBc
SPURIOUS	-60 dBc
REGULATION	5%
NOISE AND RIPPLE	10 mV P-P maximum
PHASE ALARM	TTL High In Lock, Low Out of Lock
FREQUENCY CONTROL	Serial (3 WIRE) – 4 BIT Parallel Option
AQUISTION TIME( TIME TO PHASE LOCK)	100 mSec maximum
D.C. SUPPLY	+15 Vdc @ 350 mA
PHASE NOISE:	Typical
OFFSET	LEVEL
10Hz	-75
100Hz	-80
1KHz	-88
10KHz	-95
100KHz	-120
1MHz	-130

# SINGLE LOOP FAST SWITCHER FREQUENCY SYNTHESIZER



## ORDERING INFORMATION



**EXAMPLE:** Part Number SLFS - .10- 5.00 - 2M-10M-15P part number for frequency synthesizer covering .10 to 5.0 GHz with a step size of 2 MHz and a reference frequency of 10MHz.



# SINGLE LOOP FAST SWITCHER FREQUENCY SYNTHESIZER

## MECHANICAL SPECIFICATIONS

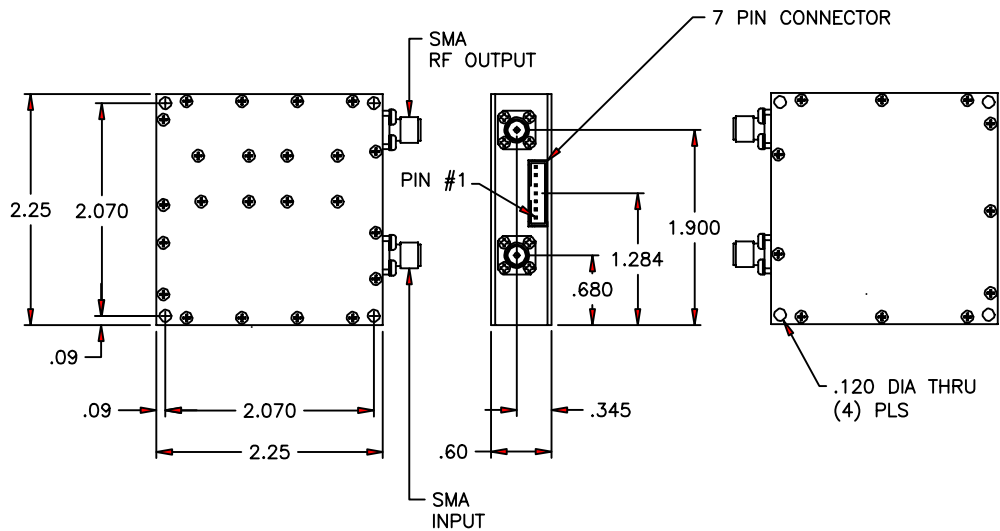
Outline drawing ..... 172526  
 RF connectors ..... SMA female  
 DC power connectors ..... JST-7 pin header

## ENVIRONMENTAL SPECIFICATIONS

Temperature  
 Operating ..... -10 to +70°C  
 Storage ..... -55 to +95°C  
 Humidity ..... Up to 95% at 40°C  
 noncondensing  
 Shock (nonoperating) ..... 30 g's, 10 ms pulse  
 Vibration (survival) ..... 20 to 2000 Hz  
 random to .04 G/Hz  
 Altitude ..... Up to 13,500 feet  
 100% testing ..... Frequency range  
 Output power  
 Discrete power  
 Spectral purity  
 Phase bursts  
 Alarm and 100% screening ..... Temperature cycle/monitor

## OUTLINE DRAWING

### SLFS SERIES 172526



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS.

