

## SINGLE LOOP FAST SWITCHER FREQUENCY

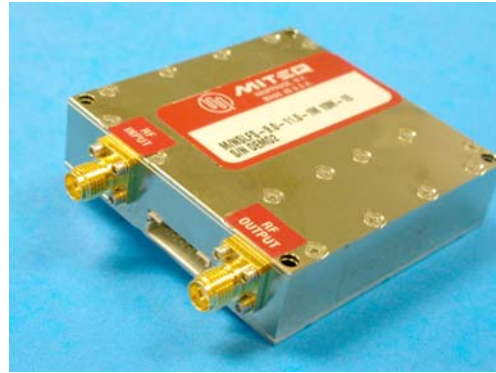
### SLFS SERIES: 5 – 10 GHz (IN BANDS)

#### FEATURES

- 200 MHz bandwidth typical
- 1 MHz standard step size
- Custom Frequencies
- Small Package size

#### OPTIONS

- Custom frequency bands
- Custom packaging
- Fast Switching Option



#### ELECTRICAL SPECIFICATIONS

OUTPUT FREQUENCY RANGE	5 – 10 GHz (200 MHz bandwidth)
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	-70
100Hz	-75
1KHz	-80
10KHz	-90
100KHz	-115
1MHz	-125



# SINGLE LOOP FAST SWITCHER FREQUENCY SYNTHESIZER

## MECHANICAL SPECIFICATIONS

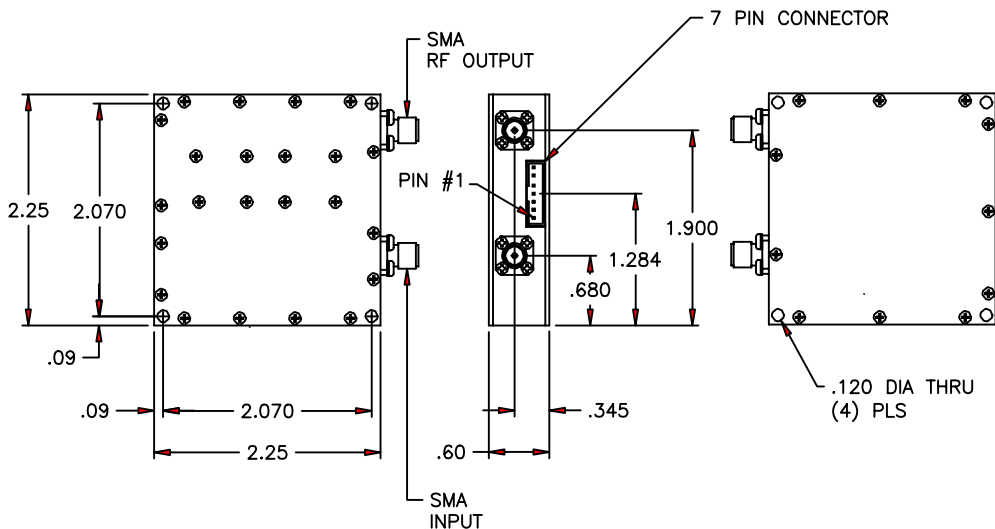
Outline drawing ..... 172562  
 RF connectors ..... SMA female  
 DC power connectors ..... JST-7 pin header

## 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<sup>2</sup>/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 172562



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS.

