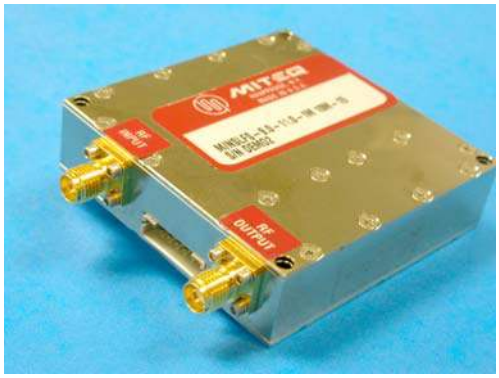
SINGLE LOOP FAST SWITCHER FREQUENCY

SLFS SERIES: 5 – 10 GHz (IN BANDS)

FEATURES

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



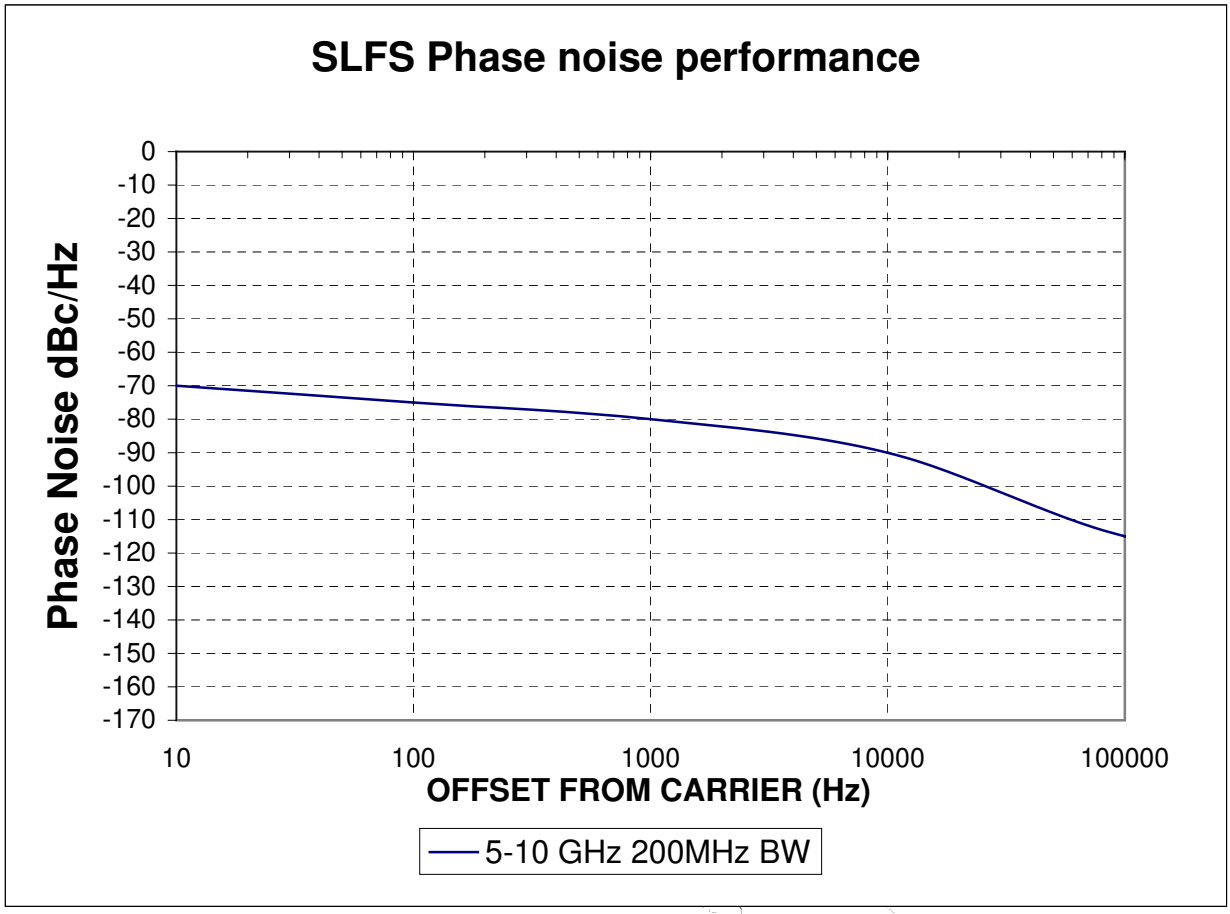
OPTIONS

- **Custom frequency bands**
- **Custom packaging**
- **Fast Switching Option**

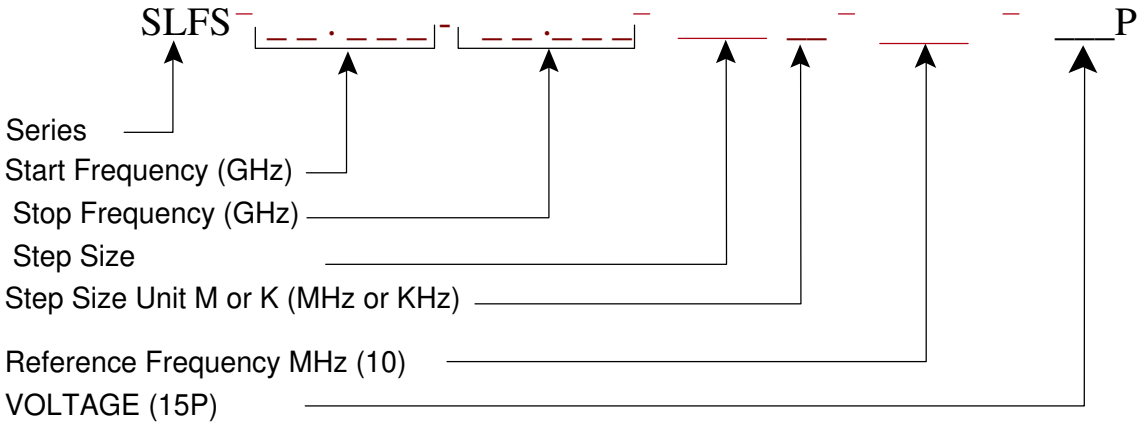
ELECTRICAL SPECIFICATIONS

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 10Hz 100Hz 1KHz 10KHz 100KHz 1MHz	LEVEL -70 -75 -80 -90 -115 -125

MITEQ 100 Davids Drive, Hauppauge, NY 11788 • TEL: (631) 439-9220 • FAX: (631) 436-7430 • www.miteq.com



ORDERING INFORMATION



EXAMPLE: Part Number SLFS – 5.10-9.00-2M-10M-15P part number for frequency synthesizer covering 5.10 – 9.00 GHz with a step size of 2 MHz and a reference frequency of 10MHz.

SINGLE LOOP FAST SWITCHER FREQUENCY SYNTHESIZER

MECHANICAL SPECIFICATIONS

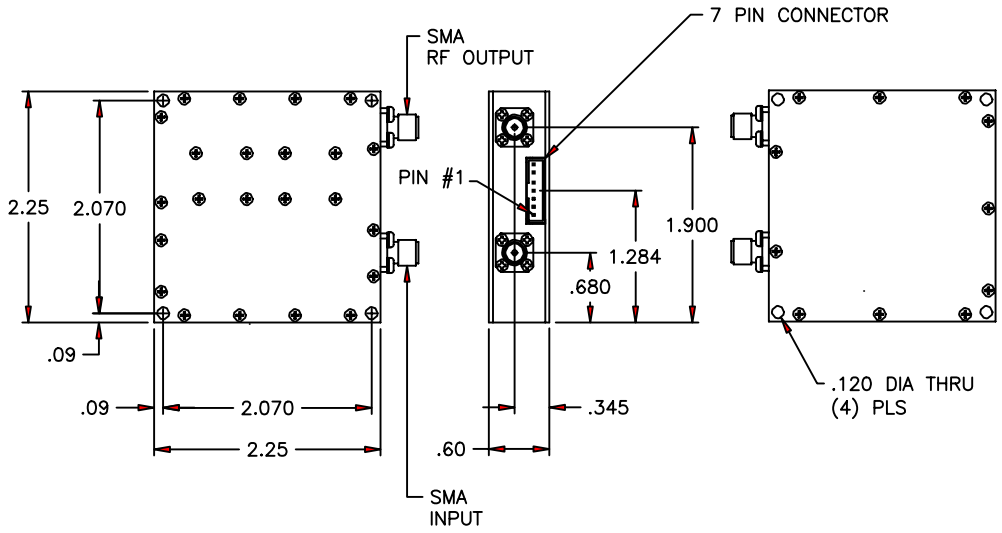
Outline drawing 172562
RF connectors ..... SMA female
DC power connectors ..... JST-7 pin header

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^2/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.