FREQUENCY SYNTHESIZER

455050

2000 - 2500 MHz

Features

- **Low Phase Noise**
- **Low Spurious Outputs**
- **High Reliability**
- **Internal Reference Model**

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 ºC	MIN/MAX Ta = -10ºC to +60 ºC
Frequency (MHz)	2000 - 2500	2000 - 2500
Output Power (dBm)	+13	0 / +17.0
Step Size (MHz)	10	1 / 100
Stability (ppm)	±10	—
Harmonics (dBc)	-25	-20 Max.
Spurious (dBc)	-70	—
Phase Noise (2000 MHz)	-49 dBc/Hz @ 10 Hz -79 dBc/Hz @100 Hz -99 dBc/Hz @ 1 kHz -99 dBc/Hz @ 10 kHz -110 dBc/Hz @ 100 kHz -130 dBc/Hz @ 1 MHz	—
Power Vdc	+15	+15
mA	200	—

NOTE: Care should always be taken to effectively ground the case of each unit.

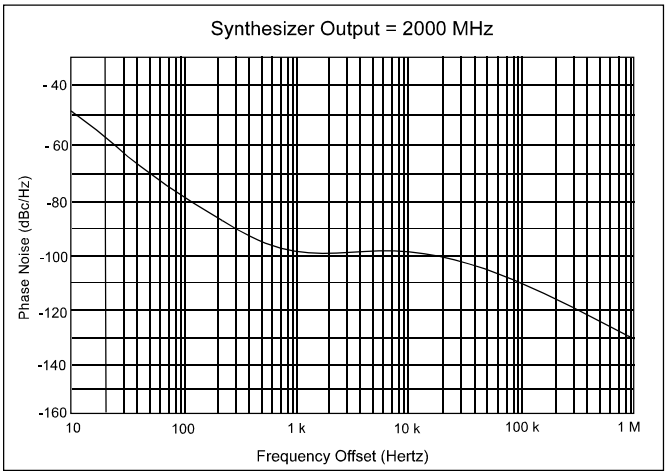
Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +24 Volts

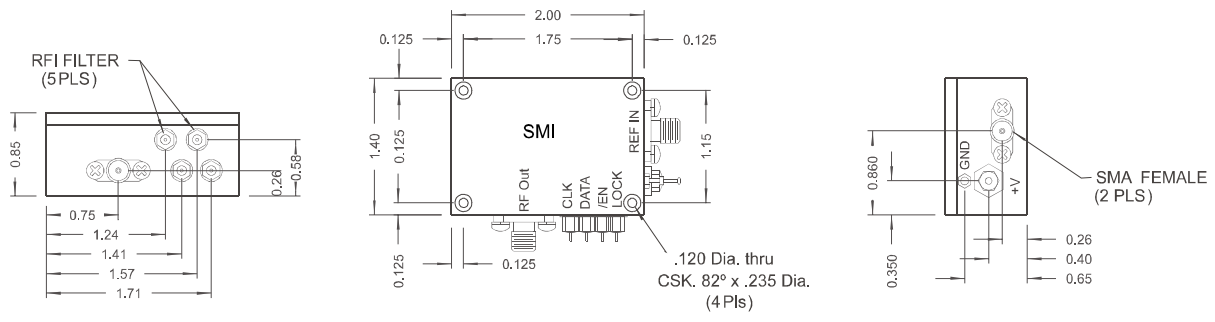
Spectrum Microwave can design a synthesizer to meet your requirements, from low-cost surface mount commercial units to complex multiple conversion designs for military and space applications.

We have delivered units with step sizes from 0.002 Hz to 200 MHz, 5-microsecond switching speeds, automatically switched back-up references, direct digital synthesis, and many other special features.

Typical Performance Data



Mechanical Outline



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532
Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001
www.SpectrumMicrowave.com

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