FREQUENCY SYNTHESIZER

442070

1000 - 1500 MHz

Features

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

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -10°C to +60 °C
Frequency (MHz)	1000 - 1500	1000 - 1500
Output Power (dBm)	+13	0 / +17.0
Step Size	1 MHz	1 Hz / 10 MHz
Reference (MHz)	10	1 - 200
Harmonics (dBc)	-25	-20 Max.
Spurious (dBc)	-70	—
Phase Noise (1000 MHz)	-68 dBc/Hz @ 10 Hz -90 dBc/Hz @100 Hz -93 dBc/Hz @ 1 kHz -93 dBc/Hz @ 10 kHz -130 dBc/Hz @ 100 kHz -145 dBc/Hz @ 1 MHz	—
Power Vdc	+15	+15
Power mA	150	—

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

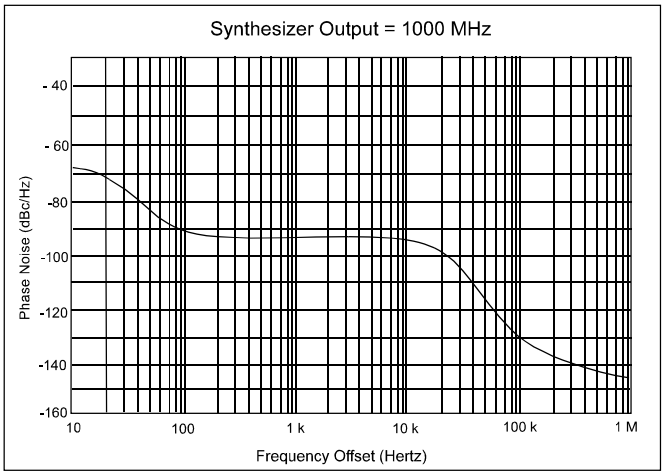
Absolute Maximum (No Damage) Ratings

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

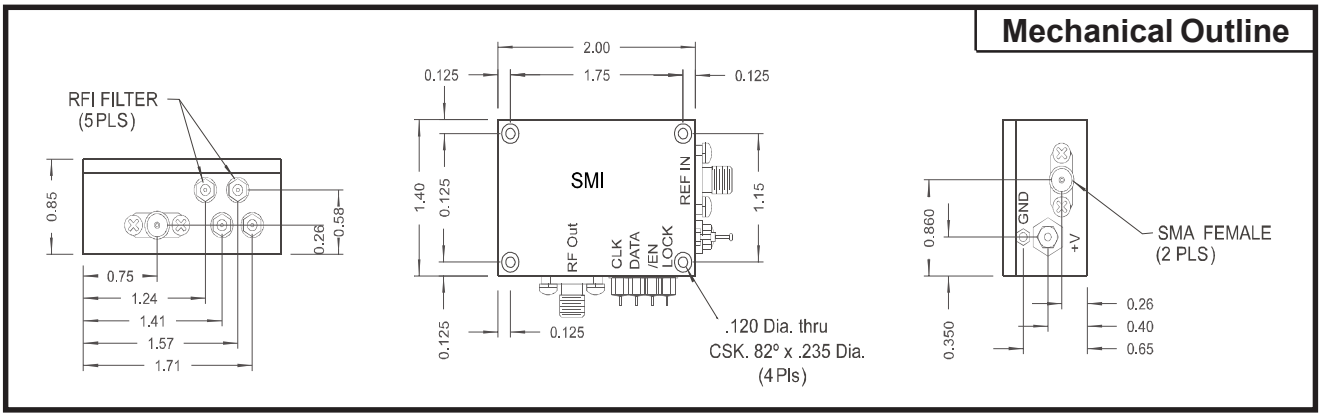
Spectrum Microwave can design a synthesizer to meet your requirements, from low-cost surface mount commercial units to complex multiple conversion designs for military and space applications.

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



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