FREQUENCY SYNTHESIZER

452018

400 - 500 MHz

Features

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

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -10°C to +60 °C
Frequency (MHz)	400 - 500	400 - 500
Output Power (dBm)	+13	0 / +17.0
Step Size	1 MHz	1 Hz / 10 MHz
Stability (ppm)	±10	—
Harmonics (dBc)	-25	-20 Max.
Spurious (dBc)	-70	—
Phase Noise (400 MHz)	-43 dBc/Hz @ 10 Hz -73 dBc/Hz @100 Hz -83 dBc/Hz @ 1 kHz -83 dBc/Hz @ 10 kHz -120 dBc/Hz @ 100 kHz -143 dBc/Hz @ 1 MHz	—
Power Vdc mA	+15 150	+15 —

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

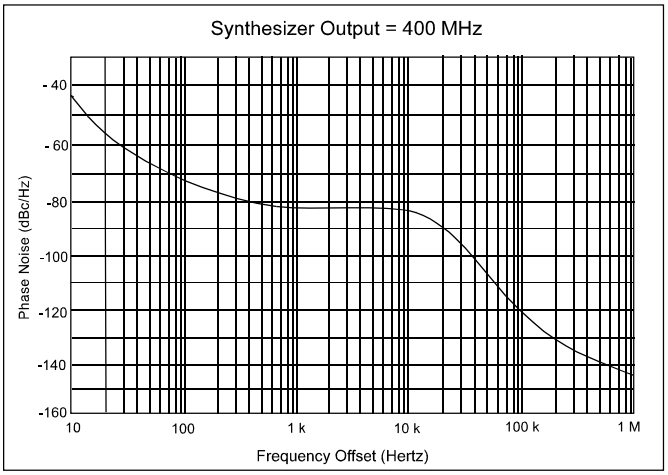
Absolute Maximum (No Damage) Ratings

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

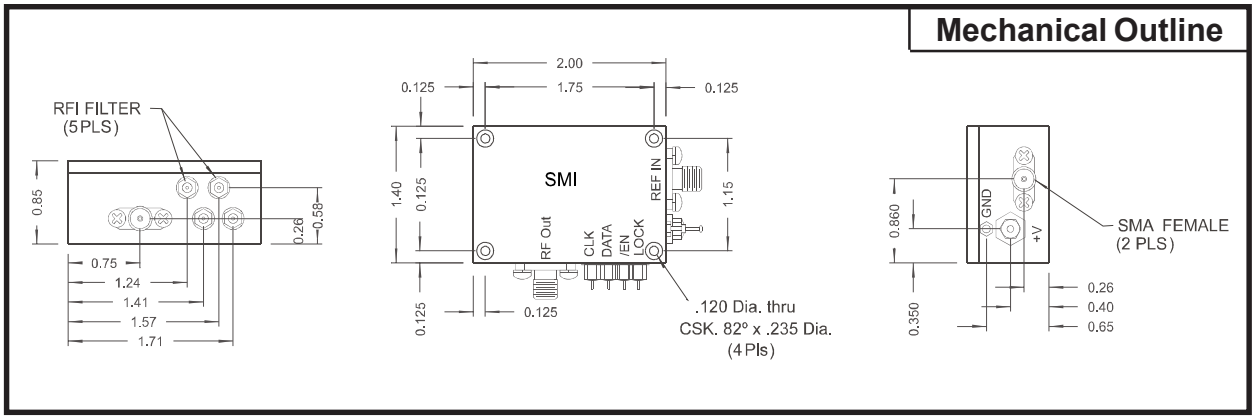
Spectrum Microwave can design a synthesizer to meet your requirements, from low-cost surface mount commercial units to complex multiple conversion designs for military and space applications.

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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Rev. 3/30/10
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