

FREQUENCY SYNTHESIZER

441049

500 - 600 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)	500 - 600	500 - 600
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 (500 MHz)	-76 dBc/Hz @ 10 Hz -81 dBc/Hz @ 100 Hz -84 dBc/Hz @ 1 kHz -85 dBc/Hz @ 10 kHz -113 dBc/Hz @ 100 kHz -130 dBc/Hz @ 1 MHz	—
Power	Vdc mA	+15 150
		+15 —

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

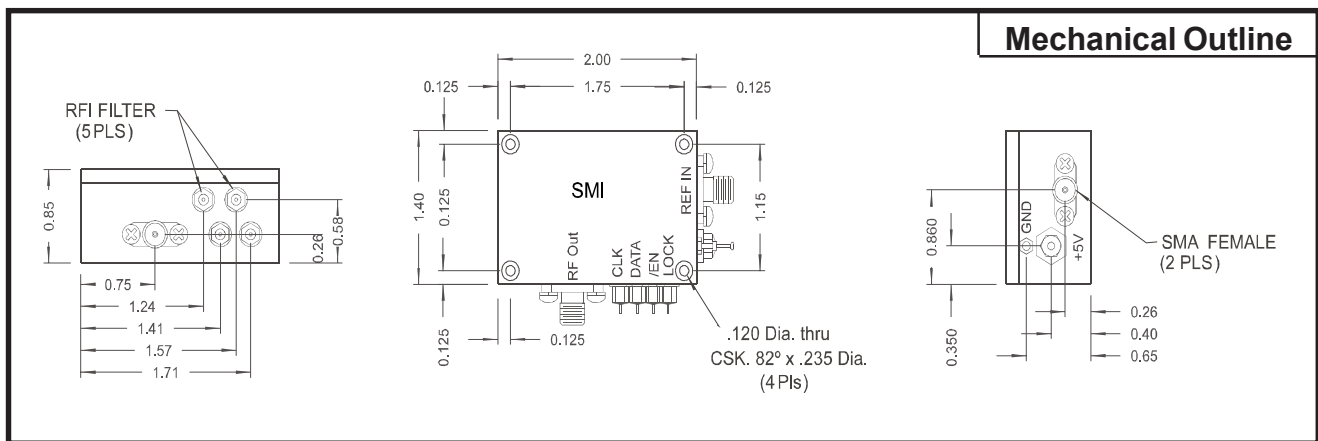
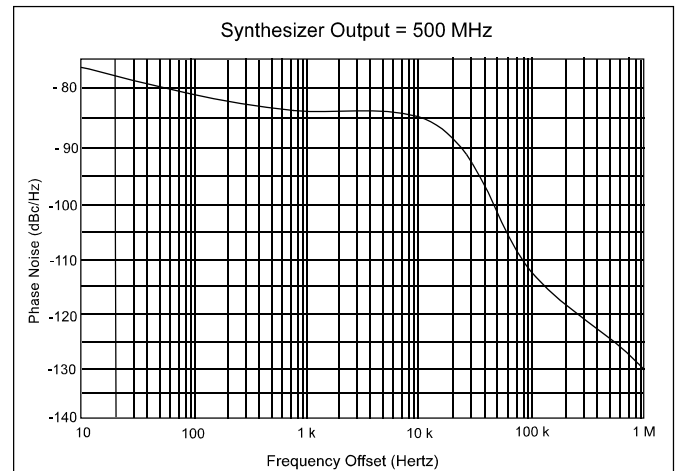
Absolute Maximum (No Damage) Ratings

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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