

FREQUENCY SYNTHESIZER

Model 457012

8000 - 8500 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)	8000 - 8500	8000 - 8500
Output Power (dBm)	+13	0 / +17.0
Step Size (MHz)	10	—
Stability (ppm)	±10	—
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	-80	-80 Max.
Phase Noise (8000 MHz)	-49 dBc/Hz @ 10 Hz -79 dBc/Hz @ 100 Hz -86 dBc/Hz @ 1 kHz -89 dBc/Hz @ 10 kHz -120 dBc/Hz @ 100 kHz -140 dBc/Hz @ 1 MHz	—
Power	Vdc mA	+15 70
		+15 90 Max.

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

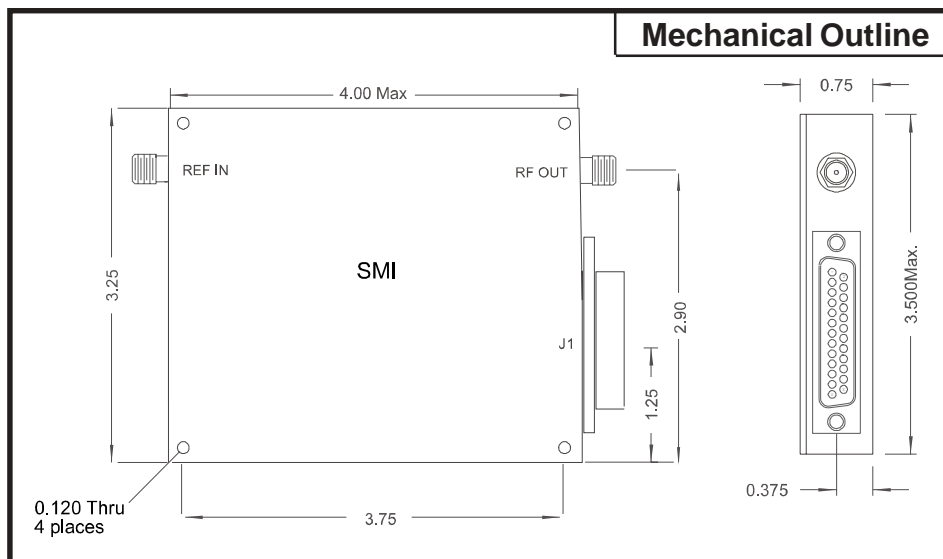
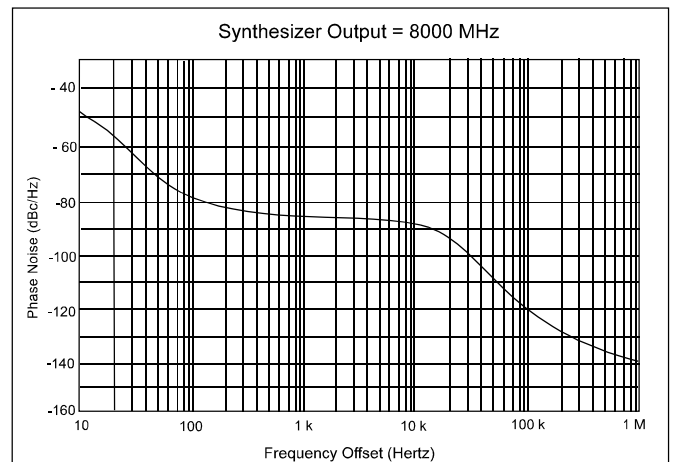
Absolute Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +24 Volts
 Maximum DC Tuning Voltage +20 Volts
 Minimum DC Tuning Voltage 0 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



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