

FREQUENCY SYNTHESIZER

451014

10 - 20 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)	10 - 20	10 - 20
Output Power (dBm)	+13	0 / +17.0
Step Size	1 MHz	1 Hz / 1 MHz
Stability (ppm)	±10	—
Harmonics (dBc)	-25	-20 Max.
Spurious (dBc)	-70	—
Phase Noise (10 MHz)	-70 dBc/Hz @ 10 Hz -100 dBc/Hz @ 100 Hz -110 dBc/Hz @ 1 kHz -110 dBc/Hz @ 10 kHz -120 dBc/Hz @ 100 kHz -145 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

