

500 Series VCXO

Description

The 500 Series voltage controlled crystal oscillator (VCXO) is designed to meet the requirements of phase locked loops (PLL) for clock recovery and frequency synthesis. Tuning ranges are available from ± 25 ppm to ± 400 ppm, with excellent tuning linearity. The 500 Series VCXO is available in a variety of packages including 14-pin DIP, surface-mount and hermetically sealed.

Frequency Range

- 64 KHz to 160 MHz

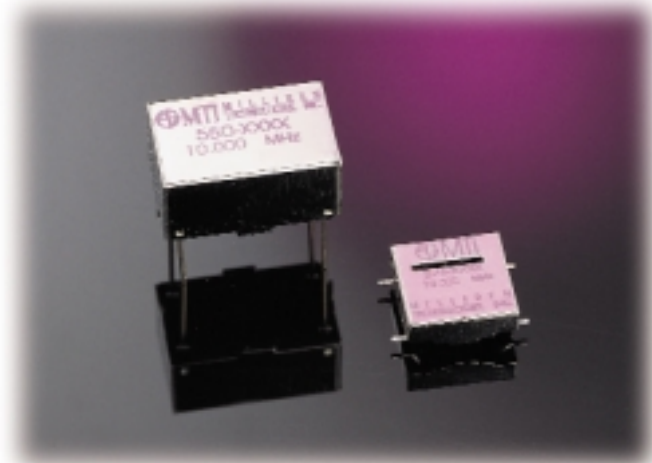
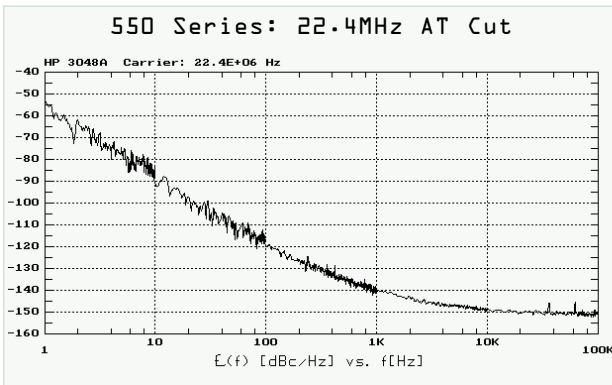
Applications

- Phase Locked Loops (PLL)
- Digital Telephony
- SARSAT Beacon

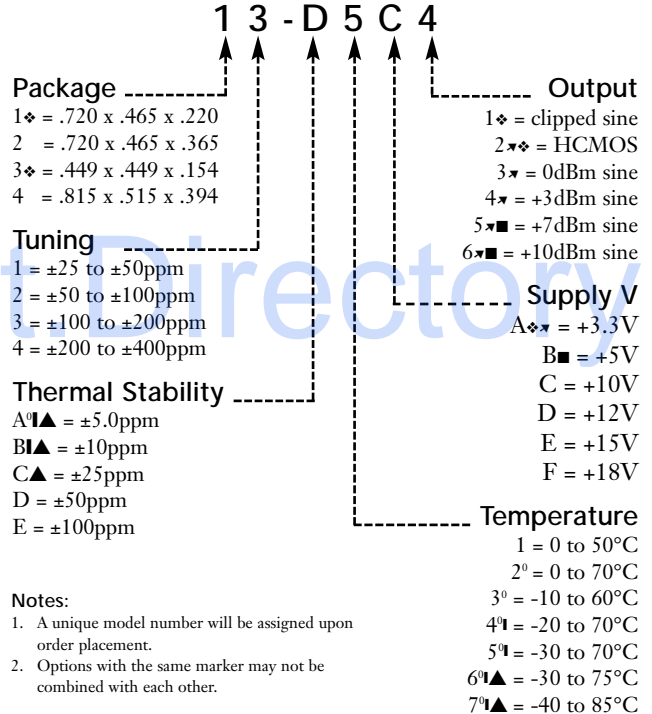
Typical Performance

Frequency Stability vs. Supply V ($\pm 5\%$)	± 0.5 ppm
Frequency Stability vs. Load ($\pm 5\%$)	± 0.5 ppm
Aging	± 2 ppm/year
Power Consumption	30mW (clipped sine)
Phase Noise	1Hz -50dBc
@ 1 Hz BW	10Hz -80dBc
	100Hz -110dBc
	1KHz -125dBc
	10KHz -140dBc
	100KHz -140dBc
Tuning Slope	Positive

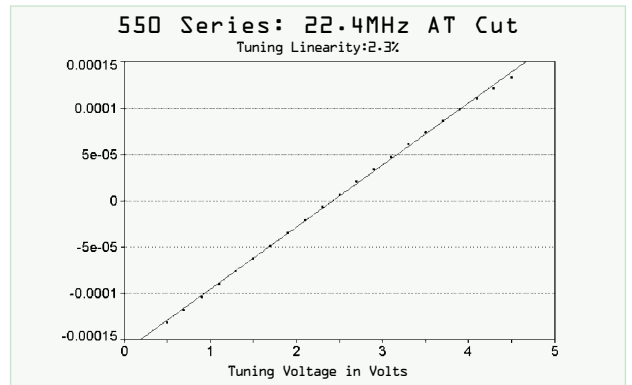
Phase Noise



The following guide can be used to determine your requirements.

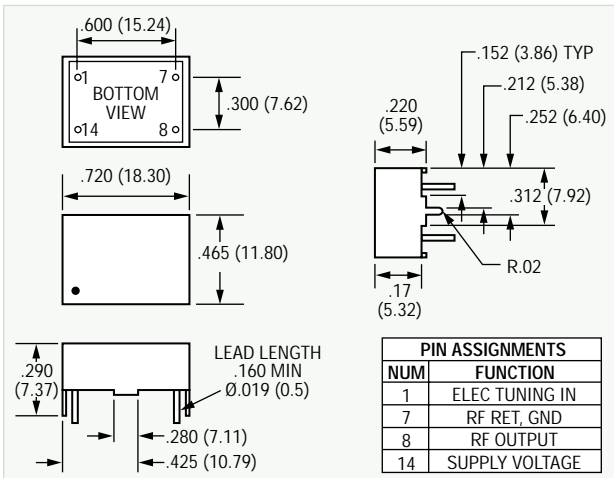


Tuning Linearity

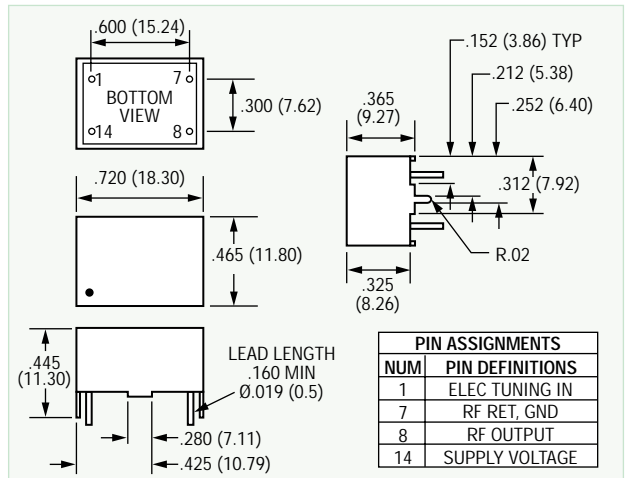




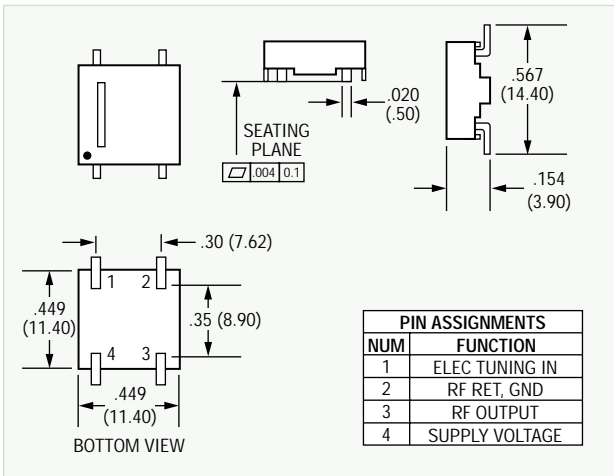
540 Interface Control Drawing (Package 1)



550 Interface Control Drawing (Package 2)



574 Interface Control Drawing (Package 3)



552 Interface Control Drawing (Package 4)

