Applications
PCS Base Stations
Cellular Base Stations
Compact Design
Phase Locking
SAR/SAT

Features
Standard DIP/DIL Package
Tight Stabilities
Fast Warm-up
Low Current

Typical Specifications

Model XO5060	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging Yearly	Output	Supply Voltage
XO5160	10.000	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
XO5061	12.000	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
XO5062	13.000	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
XO5063	16.384	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
XO5064	12.688281	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
XO5065	10.150685	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V ±5%
Options		Consult Factory			HCMOS	

Additional Specifications

Warm-up current	250 mA max
Current	65 mA typical @ -40 °C steady state 25 mA typical @ +25 °C steady state 10 mA typical @ +60 °C steady state
Warm-up time	60 sec @ -40 °C
Control voltage	0.5 V to 5 V
Aging adjustment	$\pm 7.0 \times 10^{-7}$ (Ref to nominal freq)
Slope	Positive
Frequency stability	
Vs supply voltage	$\pm 1.0 \times 10^{-7}$
Vs load variation	$\pm 1.0 \times 10^{-7}$
Short term (-tau = 1s)	$\pm 5.0 \times 10^{-11}$

Phase Noise @ 10MHz

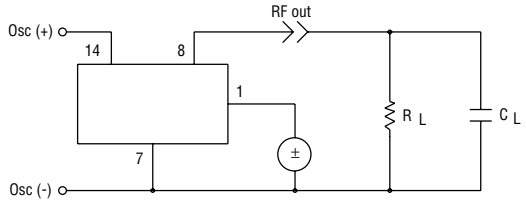
1 Hz	-75 dBc/Hz
10 Hz	-105 dBc/Hz
100 Hz	-135 dBc/Hz
1 kHz	-145 dBc/Hz
10 kHz	-150 dBc/Hz

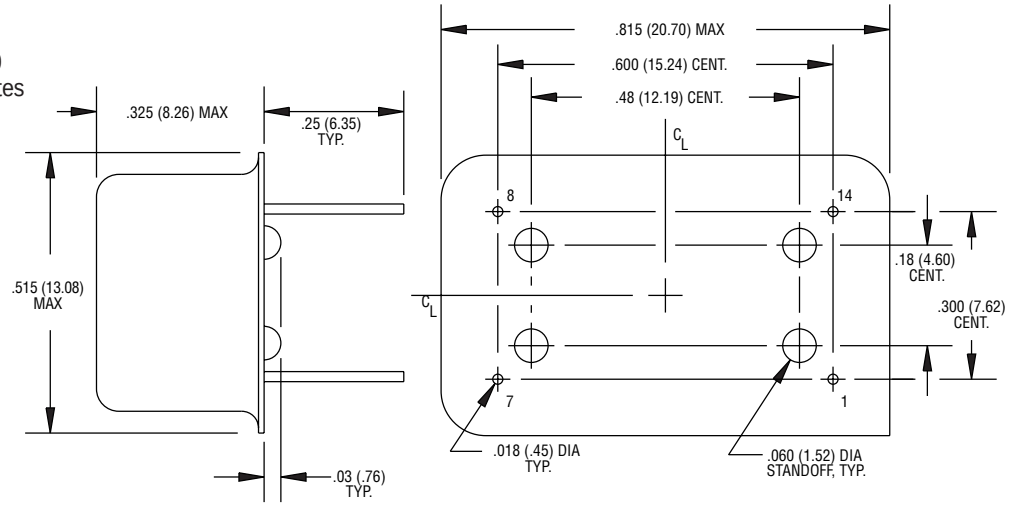
Sinewave Version

Load	10 k Ω//10 pF
Output level	1.5 Vpp typical

HCMOS Version

Duty cycle	40/60
Load	2 Gates





Dimensions are in inches (mm)

Pin connections
1. Frequency adjust 7. Case ground & supply return 8. R.F. Output 14. Supply (+)

Pin numbers shown for ref. only.
Numbers are not marked on unit.