

XO5060 Series OCXO

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	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 $\pm 5\%$
XO5061	12.000	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V $\pm 5\%$
XO5062	13.000	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V $\pm 5\%$
XO5063	16.384	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V $\pm 5\%$
XO5064	12.688281	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V $\pm 5\%$
XO5065	10.150685	-40 to +60	$\pm 2.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-7}$	Clipped Sine	5 V $\pm 5\%$
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

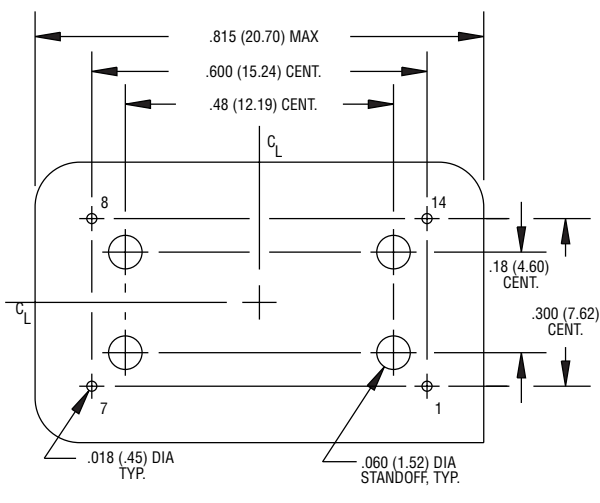
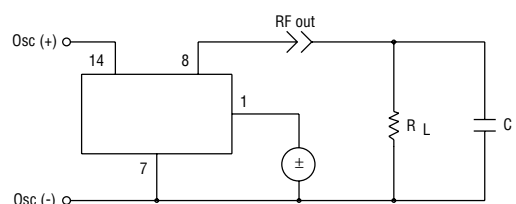
1 Hz -75 dBc/Hz
10 Hz -105 dBc/Hz
100 Hz -135 dBc/Hz
1 kHz -145 dBc/Hz
10 kHz -150 dBc/Hz

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.



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Specifications are subject to change without notice.