

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR VCXO-C

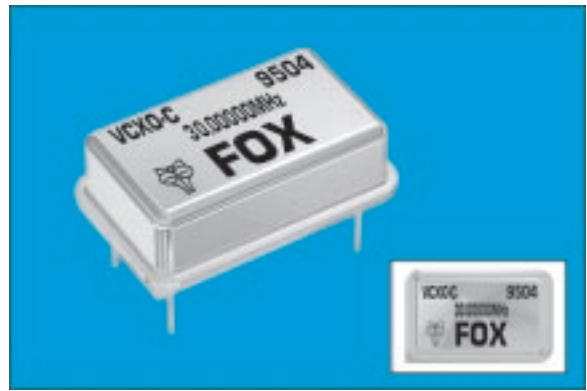
The VCXO-C series is a tight stability, voltage controlled crystal oscillator. The frequency can be altered as much as ± 100 PPM by applying a voltage between 0.5V & 4.5V to pin 1. This oscillator is designed to be used in applications requiring a general purpose VCXO with excellent cost vs performance characteristics.

FEATURES

- HCMOS/TTL Output
- Pullability
- Tight Stabilities
- Low Power Consumption
- Rugged Resistance Weld
- Low Cost

• PART NUMBER SELECTION

Part#	Stability (MAX)*	Pullability(MIN) Vc = 2.5 \pm 2V
VCXO-C3	± 50	± 100
VCXO-C4	± 25	± 100
VCXO-C7	± 25	± 50
VCXO-C8	± 100	± 100

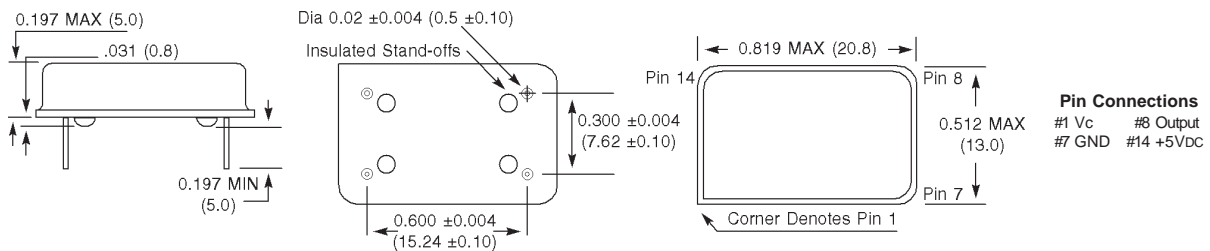


Actual Size

• ELECTRICAL CHARACTERISTICS (Ta = 25°C, VDD = 5.0V, CL = 15pF)

PARAMETERS	FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range (Fo)			1.000	30.000	MHz
Temperature Range	1.000 ~ 30.000				
Operating (TOPR)			-10	+70	°C
Storage (TSTG)			-30	+85	
Supply Voltage (VDD)	1.000 ~ 30.000		+4.75	+5.25	V
Control Voltage (Vc)	1.000 ~ 30.000		+0.5	+4.5	V
Input Current (IDD)	1.000 ~ 24.000			15	mA
	24.000+ ~ 30.000			20	
Output Symmetry	1.000 ~ 30.000	2.5V	40	60	%
Rise Time (TR)	1.000 ~ 30.000	1.0V ~ 4.0V		10	nS
Fall Time (TF)		4.0V ~ 1.0V		10	
Output Voltage (VOL)	1.000 ~ 30.000	IOL = 3.2 mA		0.5	V
		IOH = -0.1 mA	4.5		
Output Current (IOL)	1.000 ~ 30.000	VOL = 0.5 V		3.2	mA
		VOH = 4.5V		-0.1	
Output Load	1.000 ~ 30.000	TTL Load		8	LSTTL
		HCMOS Load		15	pF
Start-up Time (Ts)	1.000 ~ 30.000			10	mS
Phase Noise	1.000 ~ 30.000	Fo + 1 kHz		-125	dBc/Hz
		Fo + 10 kHz		-130	
Frequency					
Stability vs Voltage	1.000 ~ 30.000	VDD = 5.0V \pm 0.25V	-1.0	+1.0	PPM
Linearity			-10	+10	%
Modulation Bandwidth	1.000 ~ 30.000			20	kHz

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, vibration and Vc = 2.5V.
All specifications subject to change without notice. Rev. 10/3/97



Inch dimensions shall govern.
All dimensions are in inches & parenthetically in millimeters.