

# Full Size Clock Oscillators TTL/HCMOS Compatible



The XO-54 series oscillator is Full Size Tri-state Enable/Disable control. The metal package with pin #7 case ground acts as shielding to minimize EMI radiation.

## FEATURES

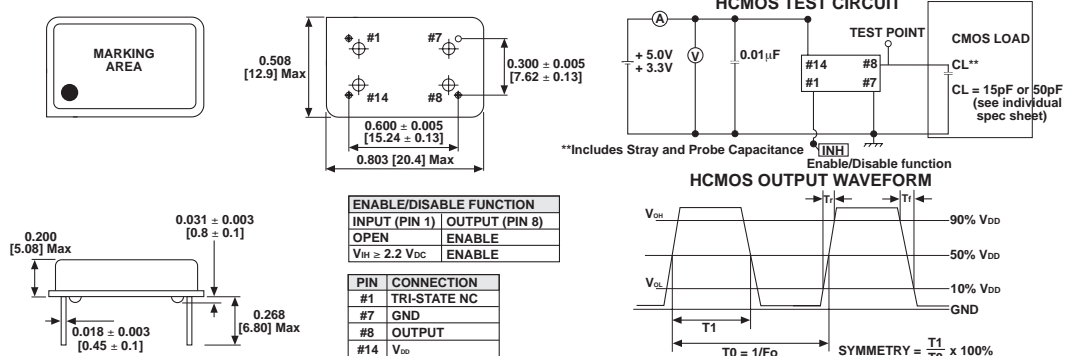
- 14 pin full size
- Industry standard
- Wide frequency range
- Low cost
- Tri-State enable/disable
- Resistance weld package
- 5V

## STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	XO-54
Frequency Range	$F_O$		1MHz ~ 125.00MHz
Frequency Stability*		All Condition*	$\pm 25\text{ppm}$ , $\pm 50\text{ppm}$ , $\pm 100\text{ppm}$
Operating Temperature Range	$T_{OPR}$		$0^\circ\text{C} \sim 70^\circ\text{C}$ ( $-40^\circ\text{C} \sim +85^\circ\text{C}$ option)
Storage Temperature Range	$T_{STG}$		$-55^\circ\text{C} \sim +125^\circ\text{C}$
Power Supply Voltage	$V_{DD}$		$5.0\text{V} \pm 10\%$
Aging (First Year)		$25^\circ\text{C} \pm 3^\circ\text{C}$	$\pm 5\text{ppm}$
Supply Current	$I_{DD}$	1MHz to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 69.999MHz	40mA Max
		70.000MHz to 125.000MHz	60mA Max
Output Symmetry	Sym	$1/2V_{DD}$	40/60%(45/55% Option)
Rise Time	$T_r$	$10\%V_{DD} \sim 90\%V_{DD}$	10 nS Max
Fall Time	$T_f$	$90\%V_{DD} \sim 10\%V_{DD}$	10 nS Max
Output Voltage	$V_{OH}$		$90\% V_{DD}$ Min
	$V_{OL}$		$10\% V_{DD}$ Max
Output Load	TTL Load		1 ~ 10TTL
	HCMOS Load		$\sim 50\text{M} : 50\text{pF}$
			$\sim 70\text{M} : 30\text{pF}$
Start-up Time		$T_s$	$\sim 100\text{M} : 15\text{pF}$ 10mS Max
Pin 1, Tri-State Function			Pin 1 = H or open.... Output active at pin 8 Pin 1 = L.... High Impedance at pin 8

\*Include:  $25^\circ\text{C}$  tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

## DIMENSIONS in millimeters



## ORDERING INFORMATION

XO-54 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	40M FREQUENCY/MHz
	AA = 0.0025% (25PPM) A = 0.005% (50PPM) B = 0.01% (100PPM) Standard	Blank = $0^\circ\text{C}$ to $+70^\circ\text{C}$ R = $-40^\circ\text{C}$ to $+85^\circ\text{C}$	Blank = Pin 1 open E = Disable or Tristate	