

## Full Size Clock Oscillators TTL Compatible



The XO-53 series oscillator is TTL compatible and features fast rise/fall times with high reliability at low cost. The metal package with pin#7 case ground acts as shielding to minimize EMI radiation.

### FEATURES

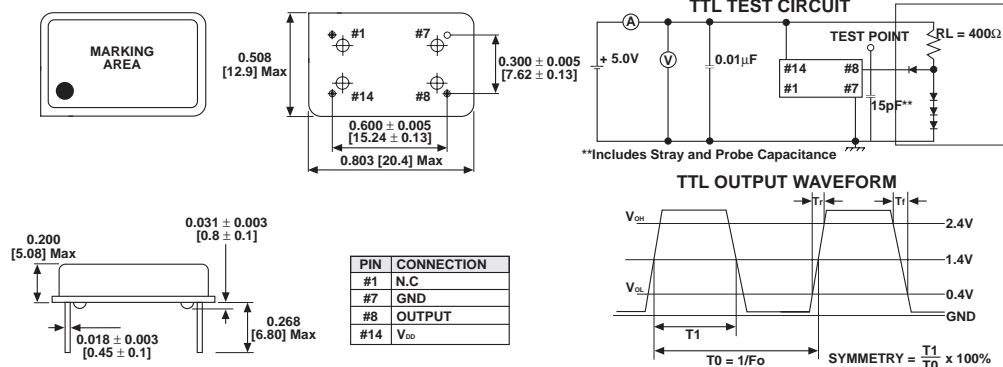
- 10TTL output load
- 14 pin fill size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package

### STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	XO-53
Frequency Range	$F_O$		1.0MHz ~ 100.00MHz
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	$I_{DD}$	1.0MHz to 23.999MHz	15mA Max
		24.000MHz to 69.999MHz	30mA Max
		70.000MHz to 100.000MHz	60mA Max
Output Symmetry	Sym	At 1.4V	40/60%(45/55% Option)
Rise Time	$T_r$	0.4V ~ 2.4V	5 nS Max
Fall Time	$T_f$	2.4V ~ 0.4V	5 nS Max
Output Voltage	$V_{OH}$		2.4 V Min
	$V_{OL}$		0.4 V Max
Output Load	TTL Load		1 ~ 10TTL
Start-up Time		$T_s$	10mS Max

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

### DIMENSIONS in inches [millimeters]



### ORDERING INFORMATION

XO-53 MODEL	B FREQUENCY STABILITY	R OTR	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 $+85^\circ\text{C}$	