

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

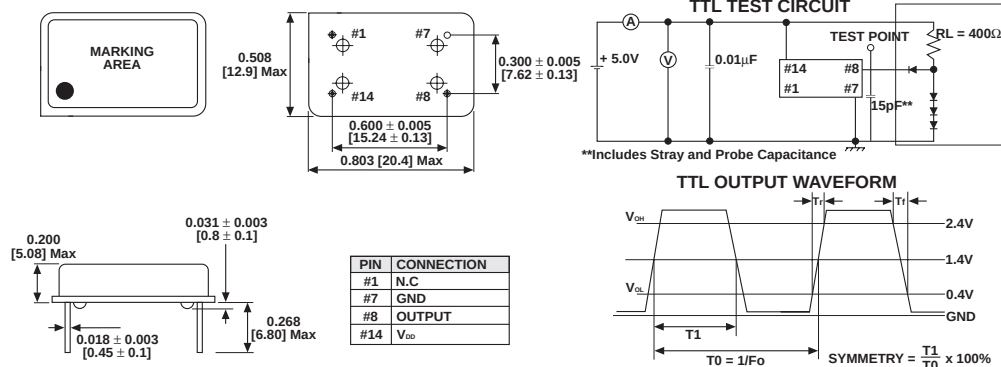
- 10TTL output load
- 14 pin fill size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package

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	$0.4\text{V} \sim 2.4\text{V}$	5 nS Max
Fall Time	T_f	$2.4\text{V} \sim 0.4\text{V}$	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°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°C to $+70^\circ\text{C}$ R = -40°C to $+85^\circ\text{C}$	