

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

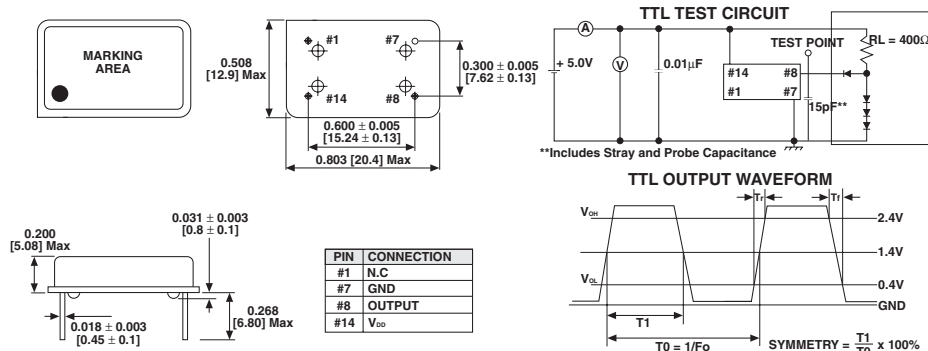
- 10TTL output load
- 14 pin fill size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package
- Lead (Pb)-free terminations and RoHS compliant



STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XO-53
Frequency Range	F_O		1.0 MHz ~ 100.00 MHz
Frequency Stability*		All Condition*	± 25 ppm, ± 50 ppm, ± 100 ppm
Operating Temperature Range	T_{OPR}		0 °C ~ 70 °C (-40 °C ~ +85 °C option)
Storage Temperature Range	T_{STG}		-55 °C ~ +125 °C
Power Supply Voltage	V_{DD}		5.0 V \pm 10 %
Aging (First Year)		25 °C \pm 3 °C	± 5 ppm
Supply Current	I_{DD}	1.0 MHz to 23.999 MHz	15 mA Max
		24.000 MHz to 69.999 MHz	30 mA Max
		70.000 MHz to 100.000 MHz	60 mA Max
Output Symmetry	Sym	At 1.4 V	40/60 % (45/55 % Option)
Rise Time	T_r	0.4 V ~ 2.4 V	5 nS Max
Fall Time	T_f	2.4 V ~ 0.4 V	5 nS Max
Output Voltage	V_{OH}		2.4 V Min
	V_{OL}		0.4 V Max
Output Load	TTL Load		1 ~ 10 TTL
Start-up Time		T_s	10 mS 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 AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) Standard	R OTR Blank = 0 °C to +70 °C R = -40 °C to +85 °C	40 M FREQUENCY/MHz	e2 JEDEC Lead (Pb)-Free STANDARD

GLOBAL PART NUMBER											
X	O	5	3	C	T	D	N	A	4	0	M
MODEL				FREQUENCY STABILITY		OTR	PACKAGE CODE		FREQUENCY		