

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

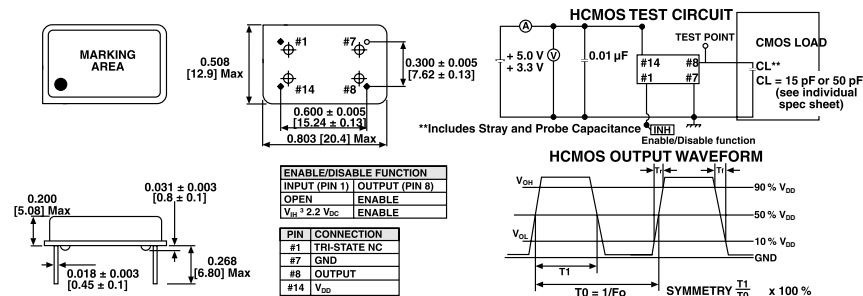
- 14 pin full size
- Industry standard
- Wide frequency range
- Low cost
- Tri-State enable/disable
- Resistance weld package
- 5 V
- Lead (Pb)-free terminations and RoHS compliant



STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XO-54
Frequency Range	F_O		1 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 ± 10 %
Aging (First Year)		25 °C ± 3 °C	± 5 ppm
Supply Current	I_{DD}	1 MHz to 23.999 MHz	20 mA Max
		24.000 MHz to 49.999 MHz	30 mA Max
		50.000 MHz to 69.999 MHz	40 mA Max
		70.000 MHz to 100.000 MHz	60 mA Max
Output Symmetry	Sym	1/2 V_{DD}	40/60 % (45/55 % Option)
Rise Time	T_r	10 % V_{DD} ~ 90 % V_{DD}	10 ns Max
Fall Time	T_f	90 % V_{DD} ~ 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 ~ 10 TTL
	HCMOS Load		~ 50 M : 50 pF
			~ 70 M : 30 pF
Start-up Time		T_s	~ 100 M : 15 pF 10 ms 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 °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 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	E ENABLE/DISABLE Blank = Pin 1 open E = Disable or Tristate	40 M FREQUENCY/MHZ	e2 JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER												
X	O	5	4	C	T	E	D	N	A	4	0	M
MODEL				FREQUENCY STABILITY	OTR	ENABLE/DISABLE	PACKAGE CODE	OPTIONS		FREQUENCY		