



XO-54

Vishay Dale

Full Size Clock Oscillators TTL/HCMOS Compatible

FEATURES

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

RoHS
COMPLIANT

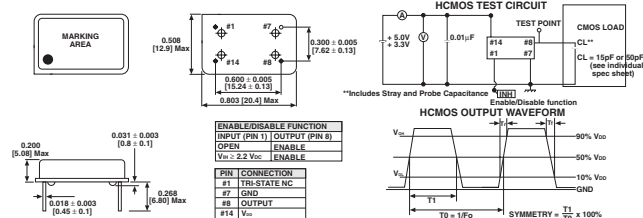
The XO-54 series oscillator is Full Size Tri-state Enable/Disable control. The metal package with pin #7 case ground acts as shielding to minimize EMI radiation.

STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	XO-54
Frequency Range	F_O		1MHz ~ 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}	1MHz to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 69.999MHz	40mA Max
		70.000MHz to 100.000MHz	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		$\sim 50\text{M} : 50\text{pF}$
			$\sim 70\text{M} : 30\text{pF}$
			$\sim 100\text{M} : 15\text{pF}$
Start-up Time		T_s	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°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	e2 JEDEC LEAD FREE STANDARD
	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 $+85^\circ\text{C}$	Blank = Pin 1 open E = Disable or Tristate		

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		