

## Half Size Clock Oscillator Enable/Disable



The XO-52 series oscillator is half size, has tri-state enable/disable controlled function. The metal package with pin 4 case ground acts as shielding to minimize EMI radiation.

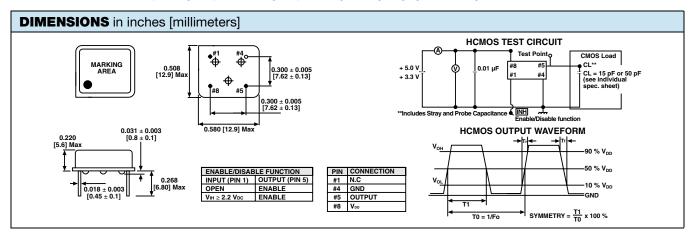
## FEATURES

- Size: 8 pin half size
- Industry standard
- Tri-state enable/disable
- Wide frequency range
- Low cost
- Resistance weld package
- 5 V
- Compliant to RoHS directive 2002/95/EC

PARAMETER	SYMBOL	CONDITION	VALUE
Frequency range	Fo	-	1.000 MHz to 100.000 MHz
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm
Operating temperature range	T <sub>OPR</sub>	-	0 °C to 70 °C
			- 40 °C to + 85 °C (option)
Storage temperature range	T <sub>STG</sub>	-	- 55 °C to + 125 °C
Power supply voltage	V <sub>DD</sub>	-	5.0 V ± 10 %
Aging (first year)		25 °C ± 3 °C	± 5 ppm
Supply current	I <sub>DD</sub>	1.000 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	at <sup>1</sup> / <sub>2</sub> V <sub>DD</sub>	40 %/60 % (45 %/55 % option)
Rise time	t <sub>r</sub>	20 % V <sub>DD</sub> to 80 % V <sub>DD</sub>	10 ns max.
Fall time	t <sub>f</sub>	80 % V <sub>DD</sub> to 20 % V <sub>DD</sub>	10 ns max.
Output voltage	V <sub>OH</sub>	-	90 % V <sub>DD</sub> min.
	V <sub>OL</sub>	-	10 % V <sub>DD</sub> max.
Output load	TTL load	-	1 TTL to 10 TTL
	HCMOS load	-	to 50M: 50 pF
		-	to 70M: 30 pF
		-	to 100M: 15 pF
Start-up time	t <sub>s</sub>	-	10 ms max.
Pin 1, tri-state function		-	pin 1 = H or open (output active at pin 5)
			pin 1 = L (high impedance at pin 5)

Note

<sup>(1)</sup> Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock vibration

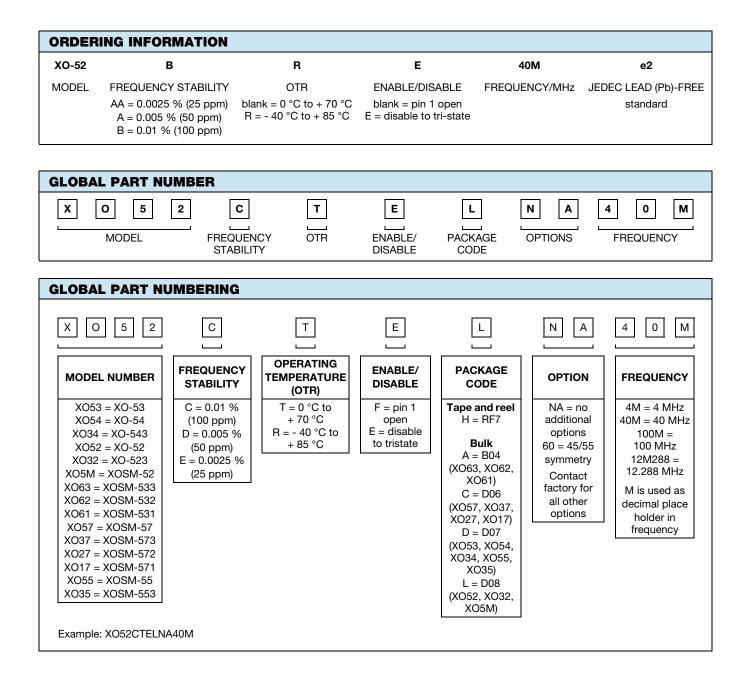




Vishay Dale

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