

## 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.

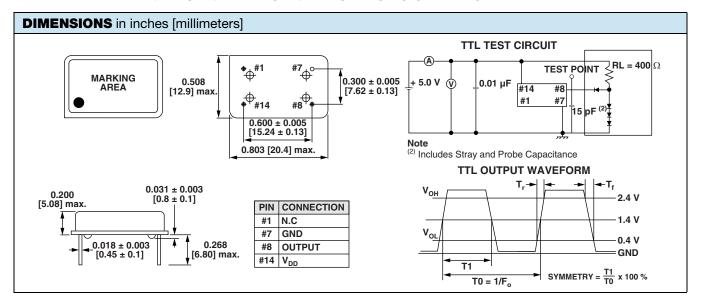
## FEATURES

- 10 TTL output load
- Size: 14 pin full size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package
- Compliant to RoHS Directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	VALUE
Frequency range	Fo	-	1.0 MHz to 100.000 MHz
Frequency stability <sup>(1)</sup>		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>	1.0 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 <sub>r</sub>	0.4 V to 2.4 V	5 ns max.
Fall time	t <sub>f</sub>	2.4 V to 0.4 V	5 ns max.
Output voltage	V <sub>OH</sub>	-	2.4 V min.
	V <sub>OL</sub>	-	0.4 V max.
Output load	TTL load	-	1 TTL to 10 TTL
Start-up time	ts	-	10 ms max.

## Note

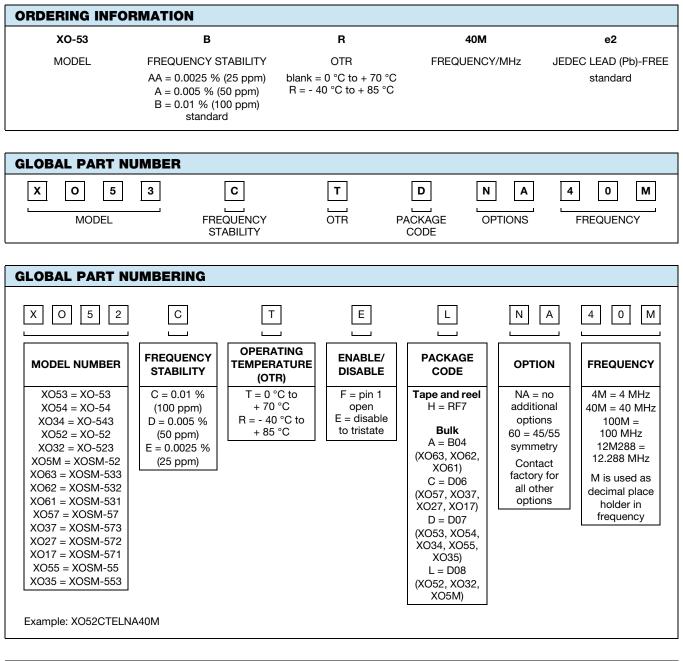
<sup>(1)</sup> Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration



Vishay Dale

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PART MARKING		
Line 1:	M2803XXXXX (part number)	
Line 2:	XX.XXXXM (frequency)	
Line 3:	yywwvv (date/factory code)	



Vishay

## Disclaimer

All product specifications and data are subject to change without notice.

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