

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.

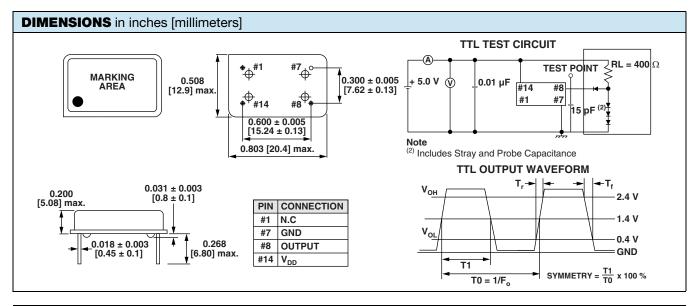
FEATURES

- · 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 (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm
Operating temperature range	T _{OPR}	-	0 °C to 70 °C
			- 40 °C to + 85 °C (option)
Storage temperature range	T _{STG}	-	- 55 °C to + 125 °C
Power supply voltage	V _{DD}	-	5.0 V ± 10 %
Aging (first year)		25 °C ± 3 °C	± 5 ppm
Supply current	I _{DD}	1.0 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 to 2.4 V	5 ns max.
Fall time	t _f	2.4 V to 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 TTL to 10 TTL
Start-up time	ts	-	10 ms max.

Note

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



Document Number: 35023 Revision: 24-Nov-10

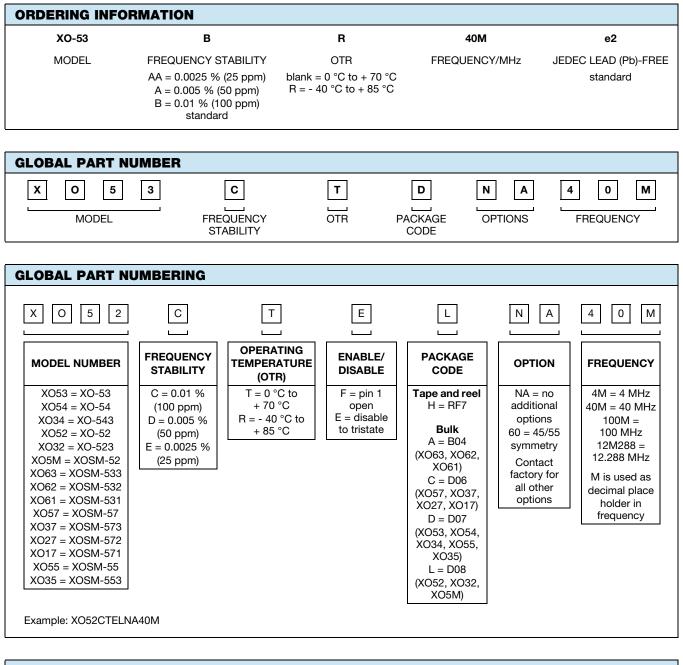
For technical questions, contact: frequency@vishay.com



Vishay Dale

Full Size Clock Oscillators TTL Compatible





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.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.