



# Half Size Clock Oscillator Enable/Disable



The XOSM-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**

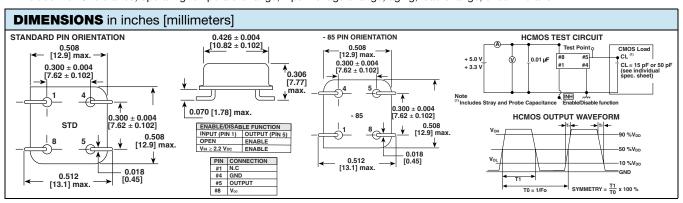
- Size: 8 pin half size
- · Industry standard
- Tri-state enable/disable
- Wide frequency range
- Low cost
- Resistance weld package
- 5 \
- Compliant to RoHS Directive 2002/95/EC



STANDARD ELECTRICAL SPECIFICATIONS								
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	т		0 °C to 70 °C					
	T <sub>OPR</sub>	-	- 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					
		1.000 MHz to 23.999 MHz	20 mA max.					
Complete		24.000 MHz to 49.999 MHz	30 mA max.					
Supply current	I <sub>DD</sub>	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.					
O	V <sub>OH</sub>	-	90 % V <sub>DD</sub> min.					
Output voltage	V <sub>OL</sub>	-	10 % V <sub>DD</sub> max.					
	TTL load	-	1 TTL to 10 TTL					
Output load		-	to 50M: 50 pF					
	HCMOS load	-	to 70M: 30 pF					
		-	to 100M: 15 pF					
Start-up time	t <sub>s</sub>	e e	10 ms max.					
Pin 1, tri-state function		pin 1 = H or open (output active at pin 5)						

#### Note

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



Document Number: 35026 Revision: 24-Nov-10 For technical questions, contact: <a href="mailto:frequency@vishay.com">frequency@vishay.com</a>

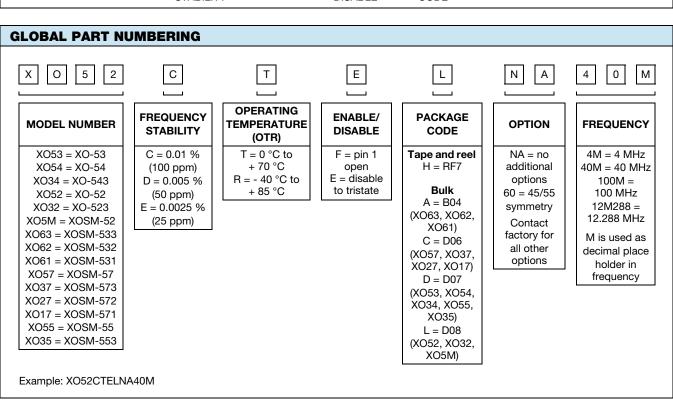
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### Half Size Clock Oscillator Enable/Disable



ORDERING INFORMATION										
XOSM-52	В	R	E	40 <b>M</b>	e2					
MODEL	FREQUENCY STABILITY  AA = 0.0025 % (25 ppm)  A = 0.005 % (50 ppm)	OTR blank = Standard R = - 40 °C to + 85 °C	ENABLE/DISABLE blank = pin 1 open E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					
	B = 0.01 % (100 ppm) standard									

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



### **PART MARKING**

Line 1: M2802XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)

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