



# **Surface Mount Oscillator**



The XOSM-573 series is an ultra miniature package clock oscillator with dimensions 7.0 mm x 5.0 mm x 1.9 mm. It is mainly used in portable PC and telecommunication devices and equipment

## **FEATURES**

- Size: 7.0 x 5.0 x 1.9 (mm)
- Miniature package
- Tri-state enable/disable
- TTL/HCMOS compatible
- Tape and reel
- I<sub>R</sub> re-flow
- 3.3 V input voltage
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

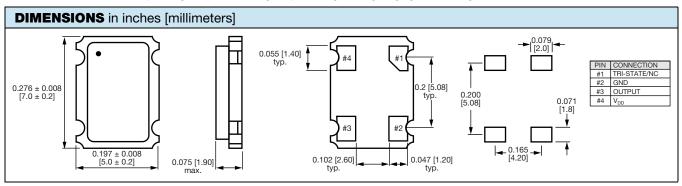


HALOGEN **FREE** 

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	VALUE					
Frequency range	F <sub>O</sub>	-	1.500 MHz to 100.000 MHz					
Frequency stability (1)		all conditions $\pm$ 25 ppm, $\pm$ 50 ppm, $\pm$ 10						
Operating temperature range	_	-	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>	-	3.3 V ± 10 %					
Aging (first year)		25 °C ± 3 °C	± 5 ppm					
Supply current		1.500 MHz to 20.000 MHz	10 mA max.					
		20.001 MHz to 50.000 MHz	20 mA max.					
	I <sub>DD</sub>	50.001 MHz to 67.000 MHz	30 mA max.					
		67.001 MHz to 100.000 MHz	55 mA max.					
Output symmetry	Sym	at ½ V <sub>DD</sub>	40 %/60 % (45 %/55 % option)					
		1.500 MHz to 50.000 MHz	6 ns					
Rise/fall time	t <sub>r</sub> /t <sub>f</sub>	50.001 MHz to 80.000 MHz	4 ns					
		80.001 MHz to 100.000 MHz	2 ns					
Outrout well-	V <sub>OH</sub>	-	90 % V <sub>DD</sub> min.					
Output voltage	V <sub>OL</sub>	-	10 % V <sub>DD</sub> max.					
Output load		-	2 TTL or 15 pF					
Start-up time	t <sub>s</sub>	-	10 ms max.					
Din 1 tri atata function			pin 1 = H or open (output active at pin 3)					
Pin 1, tri-state function		<del>-</del>	pin 1 = L (high impedance at pin 3)					

#### Note

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



A 0.01 μF bypass capacitor should be placed between V<sub>DD</sub> (pin 4) and GND (pin 2) to minimize power supply line noise

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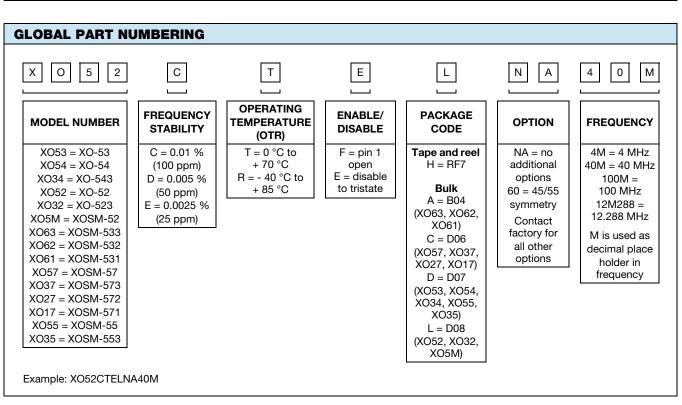
# Vishay Dale

## Surface Mount Oscillator



ORDERING INFORMATION										
XOSM-573	В	R	E	50M	e4					
MODEL	FREQUENCY STABILITY  AA = 0.0025 % (25 ppm)  A = 0.005 % (50 ppm)  B = 0.01 % (100 ppm)  standard	OTR blank = standard R = - 40 °C to + 85 °C	ENABLE/DISABLE E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					

GLOBAL PART NUMBER								
X O 3 7	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	5 0 M FREQUENCY		



### **PART MARKING**

Line 1: M2809XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)

www.vishay.com

For technical questions, contact: <a href="mailto:frequency@vishay.com">frequency@vishay.com</a>

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# **Legal Disclaimer Notice**



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