

Vishay Dale

# **Surface Mount Oscillator**



The XOSM-572 series is an ultra miniature package clock oscillator with dimensions 7.0 mm x 5.0 mm x 1.5 mm. It is mainly used in portable PC and telecommunication devices and equipment.

#### **FEATURES**

- Size: 7.0 x 5.0 x 1.5 (mm)
- Miniature package
- Tri-state enable/disable
- HCMOS compatible
- Tape and reel
- I<sub>R</sub> re-flow
- 2.5 V input voltage
- Compliant to RoHS directive 2002/95/EC

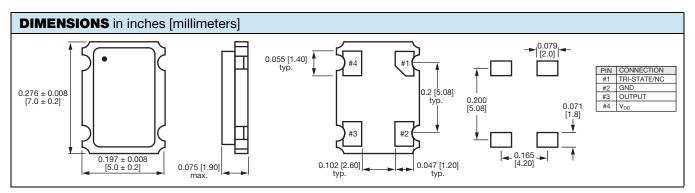




STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	VALUE				
Frequency range	F <sub>O</sub>	-	1.000 MHz to 100.000 MHz				
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm				
On exeting temperature years	T <sub>OPR</sub>		0 °C to 70 °C				
Operating temperature range		-	- 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>	-	2.5 V ± 10 %				
Aging (first year)		25 °C ± 3 °C	± 5 ppm				
Supply current	I <sub>DD</sub>	1.000 MHz to 100.000 MHz	30 mA max.				
Output symmetry	Sym	at <sup>1</sup> / <sub>2</sub> V <sub>DD</sub>	40 %/60 % (45 %/55 % option)				
Rise/fall time	t <sub>r</sub> /t <sub>f</sub>	1.000 MHz to 100.000 MHz	6 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		-	10 TTL or 15 pF				
Start-up time	ts	-	10 ms max.				
Pin 1, tri-state function	) -   · · · · · · · · · · · · · · · · · ·		pin 1 = H or open (output active at pin 3) pin 1 = L (high impedance at pin 3)				

#### Note

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



### Note

• A 0.01  $\mu F$  bypass capacitor should be placed between  $V_{DD}$  (pin 4) and GND (pin 2) to minimize power supply line noise

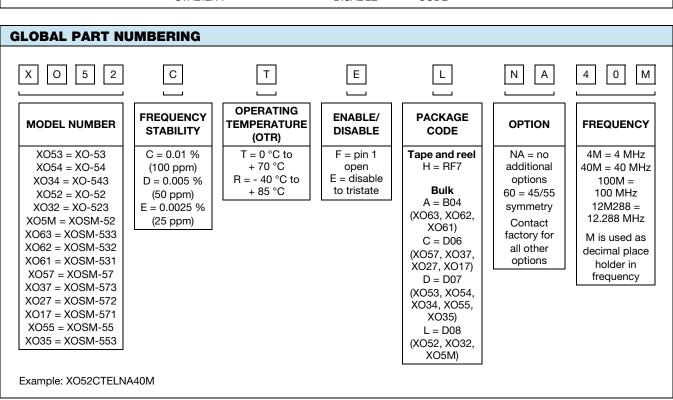
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ORDERING INFORMATION										
XOSM-572	В	R	E	50 <b>M</b>	e4					
MODEL	FREQUENCY STABILITY	OTR	ENABLE/DISABLE	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE					
	AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	blank = Standard R = - 40 °C to + 85 °C	E = disable to tri-state		standard					

GLOBAL PART NUMBER							
X O 2 7  MODEL	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	5 0 M FREQUENCY	





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