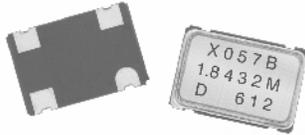


# XOSM-573

Vishay Dale



## Surface Mount Oscillator



The XOSM-573 series is an ultra miniature package clock oscillator with dimensions 7.0 x 5.0 x 1.6 mm. It is mainly used in portable PC and telecommunication devices and equipment.

### FEATURES

- Miniature Package
- Tri-state enable/disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 3.3 V input voltage
- 100 % Lead (Pb)-free and RoHS compliant

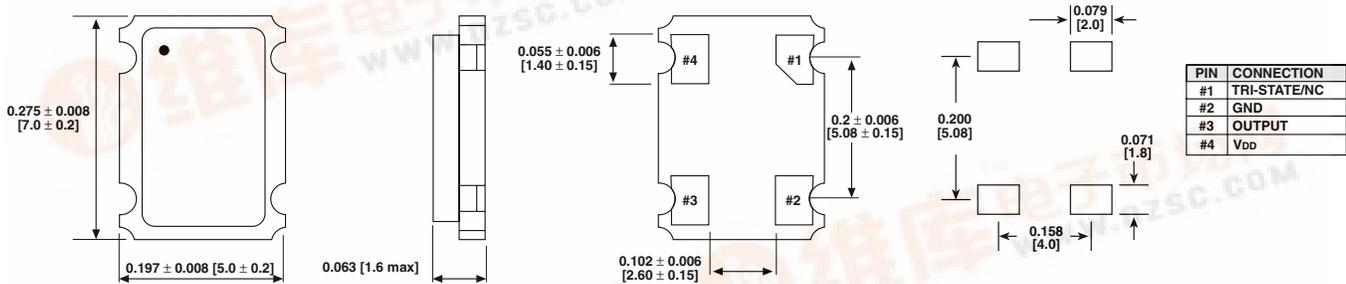


**RoHS**  
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-573
Frequency Range	$F_O$		1 MHz ~ 100.000 MHz
Frequency Stability*		All Condition*	$\pm 25$ ppm, $\pm 50$ ppm, $\pm 100$ ppm
Operating Temperature Range	$T_{OPR}$		0 °C ~ 70 °C (- 40 °C ~ + 85 °C option)
Storage Temperature Range	$T_{STG}$		- 55 °C ~ + 125 °C
Power Supply Voltage	$V_{DD}$		3.3 V $\pm 10$ %
Aging (First Year)		25 °C $\pm 3$ °C	$\pm 5$ ppm
Supply Current	$I_{DD}$	1.000 MHz to 23.999 MHz	20 mA Max
		24.000 MHz to 49.999 MHz	30 mA Max
		50.000 MHz to 69.999 MHz	40 mA Max
		70.000 MHz to 100.000 MHz	60 mA Max
Output Symmetry	Sym	At $1/2 V_{DD}$	40/60 % (45/55 % Option)
Rise Time	$T_r$	10 % $V_{DD}$ ~ 90 % $V_{DD}$	5 ns Max
Fall Time	$T_f$	90 % $V_{DD}$ ~ 10 % $V_{DD}$	5 ns Max
Output Voltage	$V_{OH}$		90 % $V_{DD}$ Min
	$V_{OL}$		10 % $V_{DD}$ Max
Output Load	HCMOS Load		30 pF Max
Start-up Time		$T_s$	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

\* Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

### DIMENSIONS in inches [millimeters]



\*\*\*note: A 0.01 µF bypass capacitor should be placed between VDD(Pin4) and GND(Pin2) to minimize power supply line noise

ORDERING INFORMATION					
XOSM-573	B	R	E	50 M	e4
MODEL	FREQUENCY STABILITY	OTR	ENABLE/DISABLE	FREQUENCY/MHZ	JEDEC LEAD (Pb)-FREE STANDARD
	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 Tristate		

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



GLOBAL PART NUMBERING												
X	O	5	2	C	T	E	L	N	A	4	0	M
<b>MODEL NUMBER</b>				<b>FREQUENCY STABILITY</b>	<b>OPERATING TEMPERATURE (OTR)</b>	<b>ENABLE/DISABLE</b>	<b>PACKAGE CODE</b>	<b>OPTIONS</b>	<b>FREQUENCY</b>			
XO53 = XO-53 XO54 = XO-54 XO34 = XO-543 XO52 = XO-52 XO53 = XO-523 XO56 = XO-56 XOVC = XOVC-23 XO5M = XOSM-52 XO63 = XOSM-533 XO62 = XOSM-532 XO61 = XOSM-531 XO57 = XOSM-57 XO37 = XOSM-573 XO27 = XOSM-572 XO17 = XOSM-571 XO55 = XOSM-55 XO35 = XOSM-553				C = 0.01 % (100 ppm) D = 0.005 % (50 ppm) E = 0.0025 % (25 ppm)	T = 0 °C to +70 °C R = -40 °C to +85 °C	F = Pin 1 Open E = Disable to Tristate	TAPE AND REEL H = RF7  BULK A = B04 (XO63, XO62, XO61) C = D06 (XO57, XO37, XO27, XO17) D = D07 (XO53, XO54, XO34, XO56, XOVC, XO55, XO35) L = D08 (XO52, XO32, XO5M)	NA = No Additional Options 60 = 45/55 Symmetry  Contact factory for all other options	4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz  M is used as decimal place holder in frequency			
Example: XO52CTELNA40M												



### Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.