Vishay Dale



Surface Mount Oscillator



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

FEATURES

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

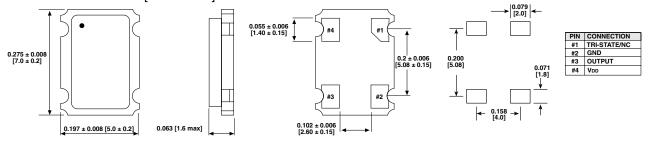


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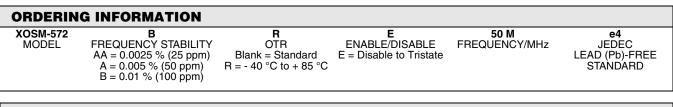
PARAMETER	SYMBOL	CONDITION	XOSM-572		
Frequency Range	Fo		1 MHz ~ 100.000 MHz		
Frequency Stability*		All Condition*	± 25 ppm, ± 50 ppm, ± 100 ppm		
Operating Temperature	T _{OPR}		0 °C ~ 70 °C (- 40 °C ~ + 85 °C option		
Storage Temperature Range	T _{STG}		- 55 °C ~ + 125 °C		
Power Supply Voltage	V_{DD}		2.5 V ± 10 %		
Aging (First Year)		25 °C ± 3 °C	± 5 ppm		
		1.000 MHz to 23.999 MHz	12 mA Max		
Supply Current	l	24.000 MHz to 49.999 MHz	15 mA Max		
Supply Culterit	I _{DD}	50.000 MHz to 69.999 MHz	20 mA Max		
		70.000 MHz to 100.000 MHz	30 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}	7 ns Max		
Fall Time	T _f	90 % V _{DD} ~ 10 % V _{DD}	7 ns Max		
Output Voltage	V _{OH}		90 % V _{DD} Min		
Output voltage	V_{OL}		10 % V _{DD} Max		
Output Load HCMOS Load			30 pF Max		
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		

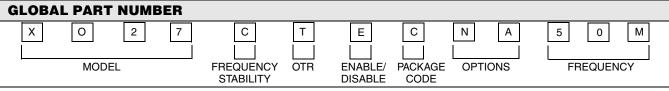
^{*} Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

DIMENSIONS in inches [millimeters]



^{***}note: A 0.01 μ F bypass capacitor should be placed between V_{DD} (Pin4) and GND (Pin2) to minimize power supply line noise





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X O 5 2	C	T	E 	L	N A	4 0 M
MODEL NUMBER	FREQUENCY STABILITY	OPERATING TEMPERATURE (OTR)	ENABLE/ DISABLE	PACKAGE CODE	OPTIONS	FREQUENCY
XO53 = XO-53 XO54 = XO-54 XO34 = XO-543 XO52 = XO-52 XO32 = XO-523 XO56 = XO-56 XOVC = XOVC-23 XO5M = XOSM-52 XO5M = XOSM-532 XO61 = XOSM-531 XO57 = XOSM-571 XO57 = XOSM-573 XO27 = XOSM-571 XO55 = XOSM-551 XO55 = XOSM-555 XO35 = XOSM-553	C = 0.01 % (100 ppm) D = 0.005 % (50 ppm) E = 0.0025 % (25 ppm)	T=0°Cto+70°C R=-40°Cto+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 MH M is used as decimal place holder in frequence



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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com