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

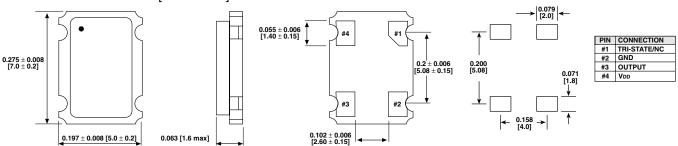


ROHS

PARAMETER		SYMBOL	CONDITION	XOSM-573		
Frequency Range		Fo		1 MHz ~ 100.000 MHz		
Frequency Stability*			All Condition*	± 25 ppm, ± 50 ppm, ± 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 ± 10 %		
Aging (First Year)			25 °C ± 3 °C	± 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		Tr	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 HC	MOS 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 tempe2ure 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 VDD(Pin4) and GND(Pin2) to minimize power supply line noise

Total A V.V. p. Dypass capacitor should be placed between VDD(1 in 4) and GND(1 in 2) to minimize power supply line holse												
ORDERING INFORMATION												
XOSM-573 MODEL	B FREQUENCY STABILI AA = 0.0025 % (25 ppr		E ENABLE/DISABLE E = Disable to Tristate	50 M FREQUENCY/MHz	e4 JEDEC LEAD (Pb)-FREE							
	AA = 0.0025 % (25 ppr A = 0.005 % (50 ppm B = 0.01 % (100 ppm Standard	R = - 40 °C to + 85 °C			STANDARD							
GLOBAL PART NUMBER												
X [O 3 7 MODEL	C T FREQUENCY OTR STABILITY	E C ENABLE/ PACKAGE DISABLE CODE	N A 5	0 M FREQUENCY							





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GLOBAL PART NUMBERING								
X 0 5 2	С	Т	Е	L	N A	4 0 M		
		<u> </u>	<u> </u>	<u> </u>				
MODEL NUMBER	FREQUENCY STABILITY	OPERATING TEMPERATURE (OTR)	ENABLE/ DISABLE	PACKAGE CODE	OPTIONS	FREQUENCY		
XO53 = XO-53	C = 0.01 %	T = 0 °C to + 70 °C	F = Pin 1 Open	TAPE AND	NA = No	4M = 4 MHz		
XO54 = XO-54	(100 ppm)	R=-40 °C to +85 °C	E = Disable to	REEL	Additional	40M = 40 MHz		
XO34 = XO-543	D = 0.005 %		Tristate	H = RF7	Options	100M = 100 MHz		
XO52 = XO-52	(50 ppm)				60 = 45/55	12M288 = 12.288 MHz		
XO32 = XO-523	E = 0.0025 %			BULK	Symmetry			
XO56 = XO-56	(25 ppm)			A = B04				
XOVC = XOVC-23				(XO63, XO62,		M is used as		
XO5M = XOSM-52				XO61)	Contact	decimal place		
XO63 = XOSM-533				C = D06	factory for	holder in frequency		
XO62 = XOSM-532				(XO57, XO37,	all other	 		
XO61 = XOSM-531				XO27, XO17) D = D07	options	I		
XO57 = XOSM-57				(XO53, XO54,				
XO37 = XOSM-573				XO34, XO56,				
XO27 = XOSM-572				XOVC, XO55,				
XO17 = XOSM-571				XO35)				
XO55 = XOSM-55				L = D08				
XO35 = XOSM-553				(XO52, XO32,				
				XO5M)				
				,				
Example: XO52CTELNA40M								
Example: AUSZUTELNA	Example. A0020 I ELIVATOW							



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