

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

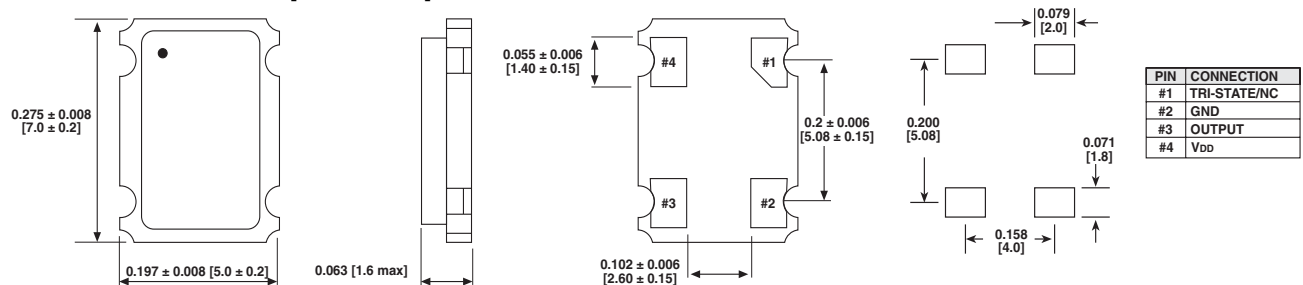
- Miniature Package
- Tri-state enable/disable
- HCMOS compatible
- Tape and Reel
- IR Re-flow
- 2.5 V input voltage
- 100 % Lead (Pb)-free and RoHS compliant


RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-572
Frequency Range	F_O		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 \pm 10 %
Aging (First Year)		25 °C \pm 3 °C	± 5 ppm
Supply Current	I_{DD}	1.000 MHz to 23.999 MHz	12 mA Max
		24.000 MHz to 49.999 MHz	15 mA Max
		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
	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]

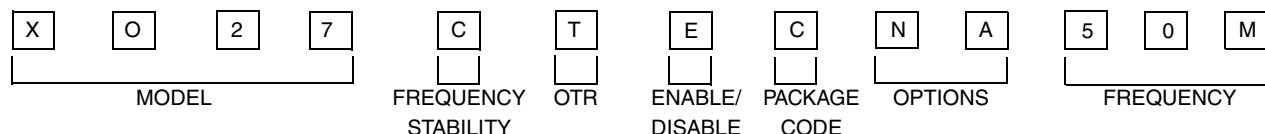


***note: A 0.01 μ F bypass capacitor should be placed between V_{DD} (Pin4) and GND (Pin2) to minimize power supply line noise

ORDERING INFORMATION

XOSM-572 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	50 M FREQUENCY/MHz	e4 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





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