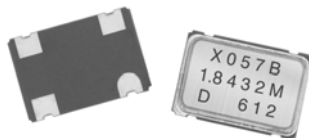


## Surface Mount Oscillator



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

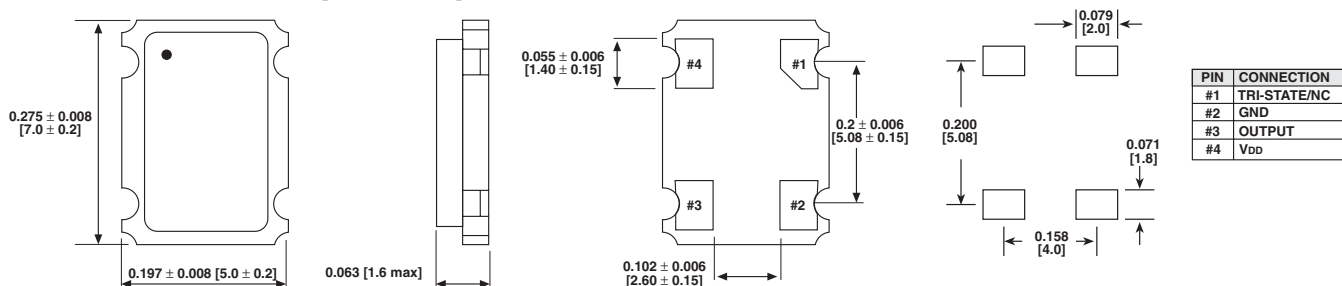


**RoHS**  
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-573
Frequency Range	F <sub>O</sub>		1 MHz ~ 100.000 MHz
Frequency Stability*		All Condition*	±25 ppm, ±50 ppm, ±100 ppm
Operating Temperature Range	T <sub>OPR</sub>		0 °C ~ 70 °C (-40 °C ~ +85 °C option)
Storage Temperature Range	T <sub>STG</sub>		-55 °C ~ +125 °C
Power Supply Voltage	V <sub>DD</sub>		3.3 V ± 10 %
Aging (First Year)		25 °C ± 3 °C	±5 ppm
Supply Current	I <sub>DD</sub>	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 <sub>DD</sub>	40/60 % (45/55 % Option)
Rise Time	T <sub>r</sub>	10 % V <sub>DD</sub> ~ 90 % V <sub>DD</sub>	5 nS Max
Fall Time	T <sub>f</sub>	90 % V <sub>DD</sub> ~ 10 % V <sub>DD</sub>	5 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	HCMOS Load		30 pF Max
Start-up Time		T <sub>s</sub>	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					
<b>XOSM-573</b>	<b>B</b>	<b>R</b>	<b>E</b>	<b>50 M</b>	<b>e4</b>
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		