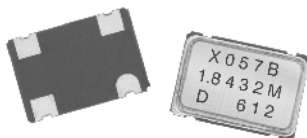


Surface Mount Oscillator



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

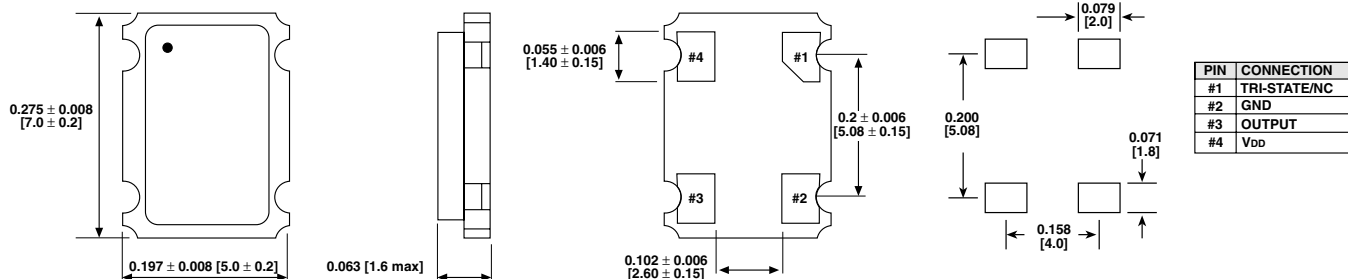


RoHS
COMPLIANT

| STANDARD ELECTRICAL SPECIFICATIONS | | | |
|------------------------------------|------------------|---|--|
| PARAMETER | SYMBOL | CONDITION | XOSM-573 |
| Frequency Range | F _O | | 1 MHz ~ 100.000 MHz |
| Frequency Stability* | | All Condition* | ± 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 | 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 | | | | | | |
|--|--|---|--|---|---|--|
| MODEL NUMBER | FREQUENCY STABILITY | OPERATING TEMPERATURE (OTR) | ENABLE/DISABLE | PACKAGE CODE | OPTIONS | FREQUENCY |
| X O 5 2 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 C = 0.01 % (100 ppm) D = 0.005 % (50 ppm) E = 0.0025 % (25 ppm) | T T = 0 °C to +70 °C R = -40 °C to +85 °C | E F = Pin 1 Open E = Disable to Tristate | L 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) | N A NA = No Additional Options 60 = 45/55 Symmetry Contact factory for all other options | 4 0 M 4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency |
| Example: XO52CTELNA40M | | | | | | |



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