

VCXO7050 CMOS

Size: 7.0×5.0×1.3mm



RoHS compliant



Pb free

Features

- Voltage Controlled Crystal Oscillator (VCXO).
- Fundamental solution.
- Package size: 7.0×5.0×1.3 mm.
- CMOS output, output frequencies 10MHz to 170MHz.
- Wide pull range and good linearity.
- Excellent low phase noise and jitter.
- 3-state function available.
- Automatic mounting and reflow soldering.
- Applications: SDH, SONET, Ethernet, Base Stations, Femtocell, Satellite, etc.
- RoHS Compliant / Pb-Free.



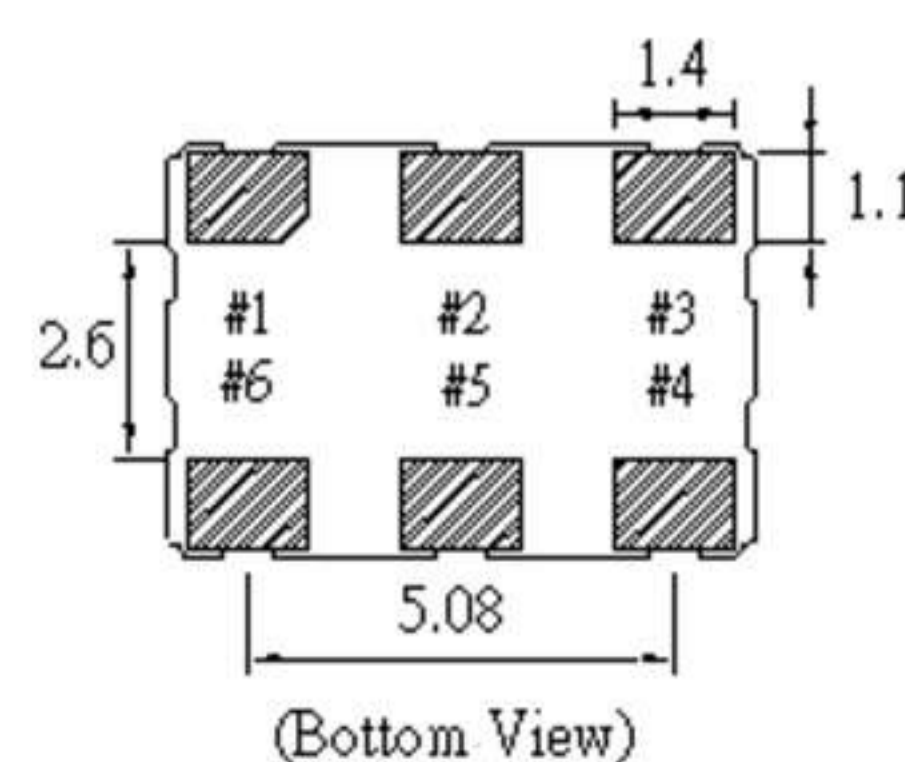
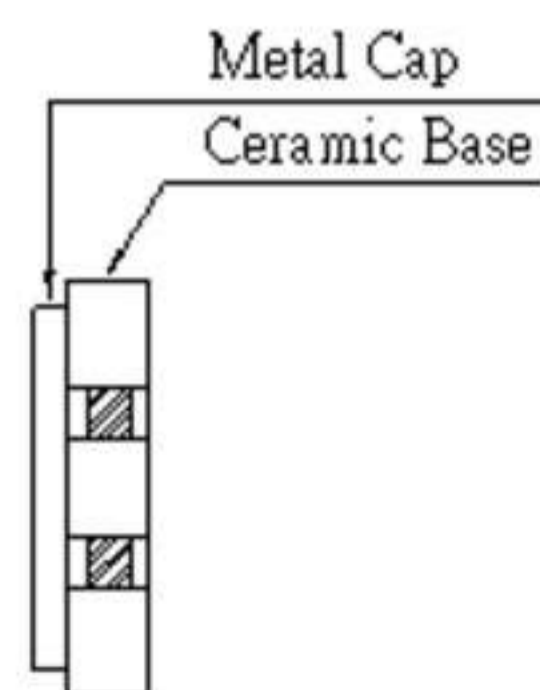
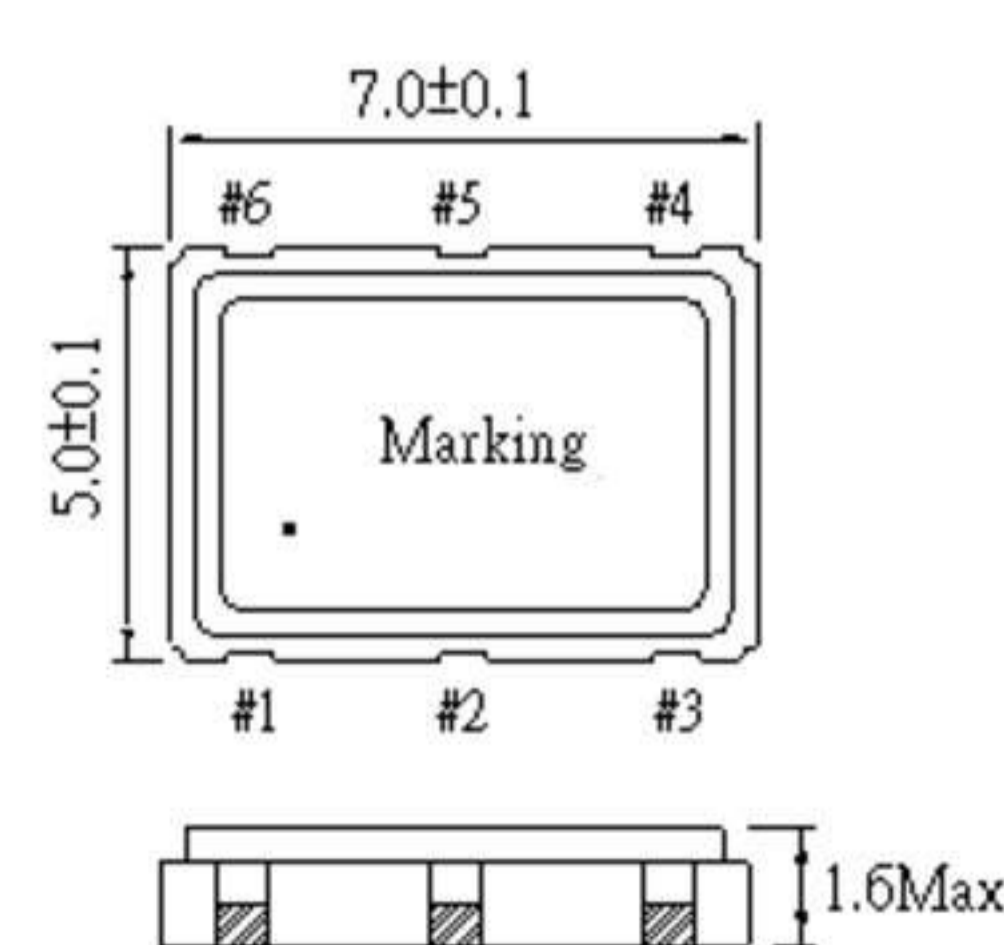
Electrical Specifications

| Item /Type | VCXO 7050 |
|-----------------------------------|----------------------------------|
| Output Type | CMOS |
| Output Load | 15pF~30pF or specify |
| Oscillation Mode | Fundamental |
| Supply voltage | 3.3V, 5V |
| Frequency range | 10MHz~170MHz |
| Frequency Stability* | ±25ppm, ±50ppm, ±100ppm |
| Operating Temperature Range | -20~+70°C, -40~+85°C, or specify |
| Storage Temperature Range | -55~+125°C |
| Voltage Vol (Typ.) / Voh (Typ.) | 0.1VDD / 0.9VDD |
| Rise(Tr) / Fall(Tf) Time(20%~80%) | 5nS Max. |
| Supply Current | 10~ 60mA Max. |
| Symmetry | 40~60%, 45~55% |
| Start-up Time | 10ms Max. |
| Absolute Pulling Range (APR)* | ±50ppm Min. or specify |
| Nominal Control Voltage | 0.5VDD |
| Control Voltage Range | 0~VDD |
| Linearity | 10% Max. |
| Phase Jitter | 1pS Max |

* APR=(Pull Range)-(Frequency tolerance at 25°C, variation over temperature, supply voltage variation, and aging.)

Dimensions

Units:mm



Pin Connections

- #1 : Vcon
- #2 : INH
- #3 : Gnd
- #4 : Output
- #5 : Nc
- #6 : Vdd

| INH Function | |
|--------------|-----------------------------|
| #2 | #4 (Output) |
| Open | Active |
| "H"Level | Active |
| "L"Level | High Z(Oscillation Stopped) |