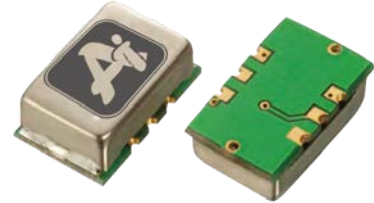




Features

- Voltage Controlled Crystal Oscillator (VCXO).
- Meet Pb free high temperature SMT reflow soldering profile.
- LVDS Output VCXO.
- 3-state function.
- Automatic mounting and reflow soldering.
- Applications: Fiber channel, Gigabit ethernet, Serial ATA, Serial attached SCSI, PCI- Express, SDH, SONET, etc.
- Excellent low phase noise and jitter.



Electrical Specifications

| Type | SMD VCXO |
|-----------------------------------|----------------------------------|
| Output Type | LVDS |
| Output Load | 100Ω |
| Oscillation Mode | Fundamental |
| Supply Voltage | 3.3V |
| Frequency Range | 50MHz~700MHz |
| Operating Temperature Range | -20~+70°C, -40~+85°C, or specify |
| Storage Temperature Range | -55~+125°C |
| Rise(Tr) / Fall(Tf) Time(20%~80%) | 5ns Max. |
| Symmetry | 45~55% |
| Start-up Time | 10ms Max. |
| Absolute Pulling Range(APR)* | ±50ppm, ±10ppm Min. or specify |
| Nominal Control Voltage | 0.5VDD |
| Control Voltage Range | 0~VDD |
| Linearity | 10ms Max. |
| Phase Jitter(12kHz~20MHz) | 1ps Max. |

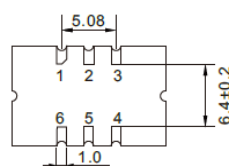
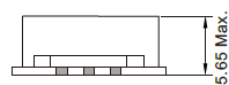
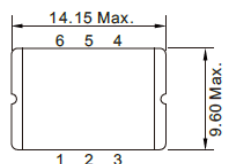
* Inclusive of frequency tolerance at 25°C, variation over temperature, supply voltage variation, aging and vibration.

Ordering Information

| KVLM | 050M | A | | 50 |
|--------------|--------------------------|-----------------------|--------------|------------------|
| Product Code | Frequency Range 50MHz | Operating Temperature | | APR 50=±50ppm |
| | | A:-20~+70°C | D:-40~+125°C | |
| | | B:-10~+70°C | E:-10~+60°C | |
| | | C:-40~+85°C | F:-30~+70°C | |

Dimension

Units:mm



PAD FUNCTION:
1: CONTROL VOLTAGE
2: ENABLE CONTROL or NC
3: GND
4: OUT
5: NC
6: VDD

* External high frequency power supply decoupling required.

