

MV-CT32K-2012A is a Crystal (XTAL) . This Crystal is a 32.768 kHz Tuning Fork resonator and comes in a Hermetic Ceramic 2.0x1.2mm package.

The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

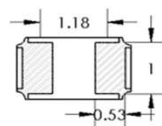
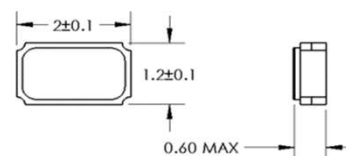
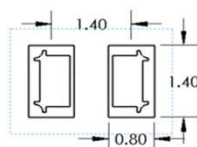
Electrical Performance

| Parameter | Min | Typ | Max | Units |
|------------------------------------|-----|-----------------|-----|---------------------|
| General | | | | |
| Output Frequency | | 32.768 | | kHz |
| Mode | | Tuning Fork | | |
| Operating Temperature | | -10/+70 -40/+85 | | °C |
| Storage Temperature | | -55/125 | | °C |
| Stability Over Temperature | | ±100 | | ppm |
| Frequency Tolerance (25°C ±3°C) | | ±20 ±10 | | ppm |
| Aging | | | ±5 | ppm/year |
| Frequency Coefficient (β) | | -0.03 | | ppm/°C ² |
| Turnover Temperature | | 25 ±5 | | °C |
| Drive Level | | 0.1 | 0.5 | μW |
| Package Size | | 2.0 x 1.2 x 0.6 | | mm |
| Equivalent Circuit | | | | |
| Load Capacitance (CL) | | 6 to 32 | | pF |
| Shunt Capacitance (C0) | | | 2.0 | pF |
| Motional Capacitance (C1) | | 3.0 | | fF |
| Equivalent Series Resistance (ESR) | | | 90 | KΩ |

Package Information

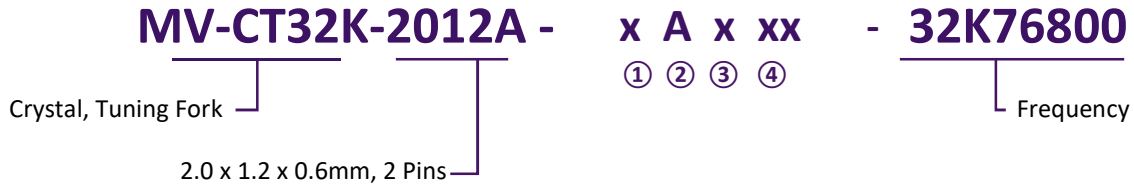
| Pin # | Function |
|-------|------------------|
| Pin 1 | Crystal Terminal |
| Pin 2 | Crystal Terminal |

Pad Layout



Package Outline Drawing

Ordering Information



① Temp Range

J: -10/+70 °C
K: -40/+85 °C

② Freq Tolerance

A: ±100 ppm

③ Initial Tolerance

J: ±10 ppm
F: ±20 ppm

④ Load Capacitance

F0: 6.0 pF
G0: 7.0 pF
J0: 9.0 pF
M5: 12.5 pF
XX: Other (CL) Ordering Codes

Ordering Option Notes:

- 1 For XX: Other Load Capacitance ordering codes (<http://datasheets.mv-electronics.com/XTAL-LoadCap.pdf>)