

MV-CT32K-1610A is a Crystal (XTAL) . This Crystal is a 32.768 kHz Tuning Fork resonator and comes in a hermetic ceramic 1.6x1.0mm package.

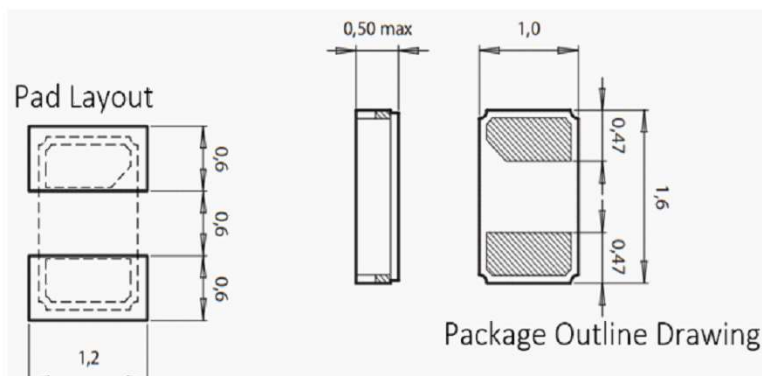
The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

## Electrical Performance

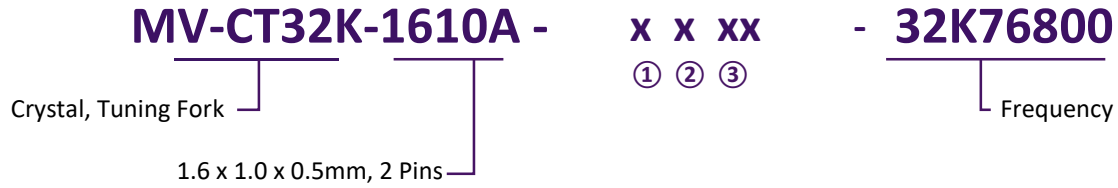
Parameter	Min	Typ	Max	Units
<b>General</b>				
Output Frequency		32.768		kHz
Mode		Tuning Fork		
Operating Temperature		-10/+70 to -40/+85		°C
Storage Temperature		-55/+125		°C
Package Size		1.6 x 1.0 x 0.5		mm
<b>Frequency Stability</b>				
Frequency Tolerance ( 25°C ±3°C)		±20 to ±10		ppm
Aging			±5	ppm/year
Frequency Coefficient (β)		-0.03		ppm/°C <sup>2</sup>
Turnover Temperature		25 ±5		°C
Drive Level		0.1	0.5	μW
<b>Equivalent Circuit</b>				
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



Ordering Code



**① Temp Range**

J: -10/+70 °C

K: -40/+85 °C

**② Freq Tolerance**

F: ±20 ppm

J: ±10 ppm

**③ Load Capacitance**

F0: 6.0 pF

G0: 7.0 pF

J0: 9.0 pF

M5: 12.5 pF

**Ordering Option Notes**

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