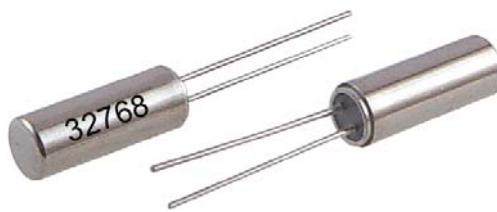


# Tuning Fork Quartz Crystals

**G1 G2**



G1



G2

8.0 x 3.0mm & 6.0 x 2.0mm Tubular Tuning Fork Crystals

## Product Features

- Industry standard package
- Rugged, resistant to shock and vibration
- Excellent resistance to heat shock and environmental conditions
- Pb-free (G1 Series) and RoHS/Green Compliant

## Product Description

The G1 & G2 tuning fork type quartz crystals provide reliable, stable, and accurate 32.768 kHz reference. The tuning fork crystals are available in two package sizes for real-time or low power applications.

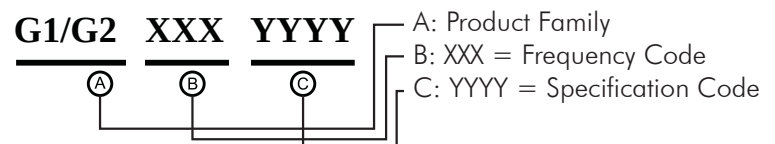
## Applications

- Real-time clocks
- Reference for microprocessors' low power and standby modes.

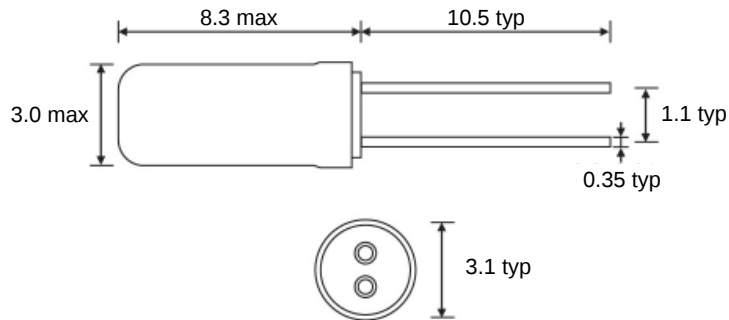
## Electrical Specification:

|                             |                | G1                                                                                                           | G2        |
|-----------------------------|----------------|--------------------------------------------------------------------------------------------------------------|-----------|
| Nominal Frequency           | f              | 32.768 kHz                                                                                                   |           |
| Frequency Tolerance at 25°C |                | ±20ppm                                                                                                       |           |
| Turnover Temperature        | T <sub>0</sub> | 25°C±5°C                                                                                                     |           |
| Temperature Characteristic  | K              | -0.035ppm/°C <sup>2</sup> Typical<br>Frequency deviation at temperature T<br>( $\Delta f/f = K(T_0 - T)^2$ ) |           |
| Load Capacitance            | C <sub>L</sub> | 12.5pF standard                                                                                              |           |
| Series Resistance           | R <sub>S</sub> | 35KΩ max                                                                                                     | 40KΩ max  |
| Shunt Capacitance           | C <sub>0</sub> | 1.8pF Typ                                                                                                    | 1.5pF Typ |
| Drive Level                 | DL             | 1μW max                                                                                                      |           |
| Aging                       |                | ±5.0ppm Max                                                                                                  |           |
| Operating Temperature Range |                | -10 to +60°C                                                                                                 |           |
| Storage Temperature Range   |                | -40 to +85°C                                                                                                 |           |

## Part Ordering Information:

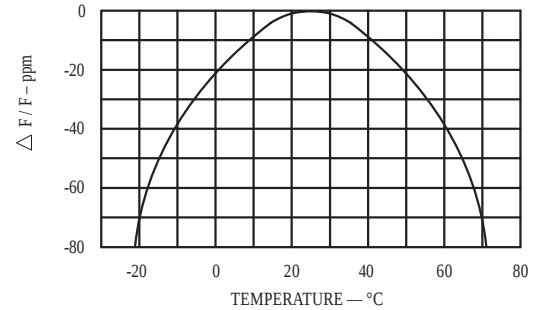


### Mechanical Drawings: G1 Series

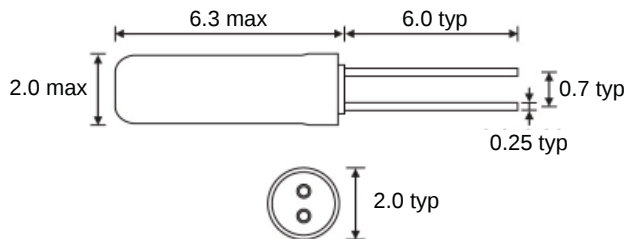


UNIT: mm

### Typical Temperature Characteristic:



### Mechanical Drawings: G2 Series



UNIT: mm