

# **Tuning Fork Quartz Crystals**



8.0 x 3.8mm SMD Plastic Molded Tuning Fork Crystal

#### **Product Features**

- Rugged, plastic-molded, resistant to shock and vibration
- Excellent resistence to heat shock and environmental characteristics
- Ideally suited for automated pick-and-place assembly environments
- Available on tape & reel; 16mm tape; 3000 units per reel
- RoHS/Green Compliant

### **Product Description**

The G4 Series is a 32.768 kHz tuning fork type quartz crystal mounted in a plastic-molded package.

#### **Applications**

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

#### **Electrical Specification:**

Nominal Frequency	f	32.768 kHz
Frequency Tolerance at 25°C		±20ppm
Turnover Temperature	T <sub>0</sub>	25°C±5°C
Temperature Coefficient	K	-0.035ppm/°C <sup>2</sup> Typical
Load Capacitance	$C_L$	12.5pF standard
Equivalent Series Resistance	Rs	50KΩ max
Shunt Capacitance	C <sub>0</sub>	1.3pF typical
Drive Level	DL	1µW max
Aging (1st year @25°C±3°C)		±5.0ppm max
Operating Temperature Range		-40 to +85°C
Storage Temperature Range		-55 to +125°C
Reflow Temperature		260°C max, 10 Second

#### **Part Ordering Information:**

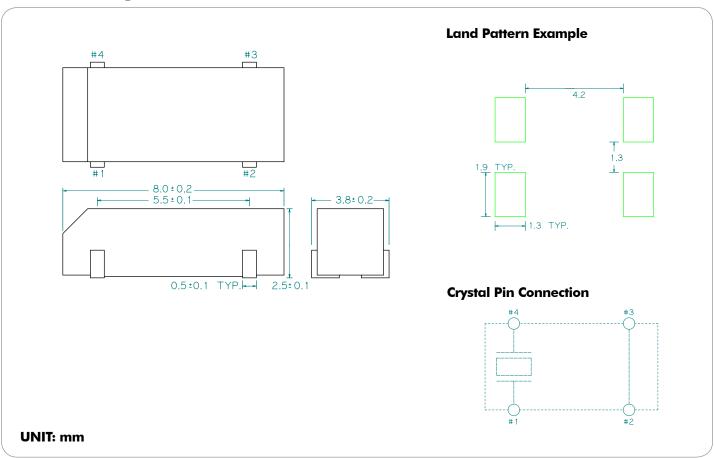
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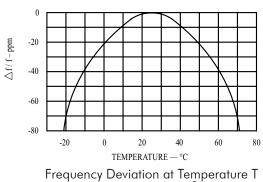
## **Tuning Fork Quartz Crystals**

**G4 Series Quartz Crystal** 32.768 kHz SMD Crystal | 8.0 x 3.8mm

#### **Mechanical Drawings: G4 Series**



#### **Typical Temperature Characteristic:**



Frequency Deviation at Temperature T  $\Delta f/f = \, K(T_0 \, \cdot \, T)^2$ 

