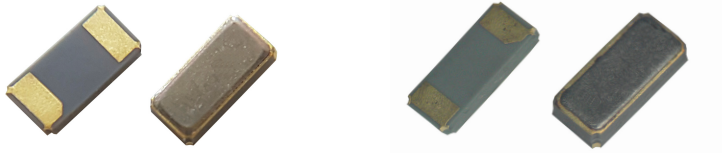


G8 Series Quartz Crystal 32.768 kHz SMD Crystal 3.2 x 1.5mm

Tuning Fork Quartz Crystals

G8


3.2 x 1.5mm SMD Ceramic Molded Tuning Fork Crystal

Product Features

- Rugged, ceramic-molded, resistant to shock and vibration
- Excellent resistance to heat shock and environmental characteristics
- Ideally suited for automated pick-and-place assembly environments
- Available on tape & reel; 12mm tape; 3000 units per reel
- Pb-free and RoHS/Green Compliant

Product Description

The G8 Series is a 32.768 kHz tuning fork type quartz crystal mounted in a ceramic-molded package.

Applications

- Real-Time Clocks
- Reference for Microprocessors' Low Power and Standby Modes
- Time Display Devices
- Smart Meters
- POS
- Networking

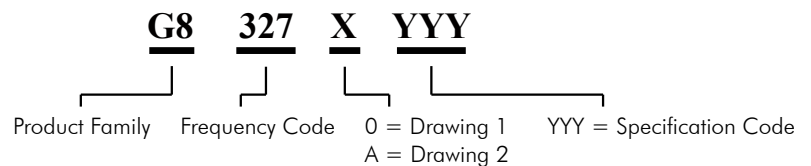
Electrical Specification:

Nominal Frequency	f	32.768 kHz
Frequency Tolerance at 25°C		±20ppm, ±10ppm
Turnover Temperature	T ₀	25°C±5°C
Temperature Coefficient	K	-0.03 +/- 0.01ppm/°C ² Typical
Load Capacitance	C _L	7.0 pF, 9.0 pF, 12.5 pF ⁽¹⁾
Equivalent Series Resistance	R _s	70KΩ max
Shunt Capacitance	C ₀	1.8pF max
Motional Capacitance	C ₁	6.5fF typical
Drive Level	DL	0.5μW max.
Operating Temperature Range		-40 to +85°C
Storage Temperature Range		-55 to +125°C
Reflow Temperature		260°C max, 10 Seconds

Note:

1. Other capacitance values are available. Please contact Diodes sales.

Part Ordering Information:



Tuning Fork Quartz Crystals G8



A product Line of
Diodes Incorporated



PERICOM

G8 Series Quartz Crystal
32.768 kHz SMD Crystal | 3.2 x 1.5mm

Package: (Scale: none; dimensions are in mm)

Figure 1

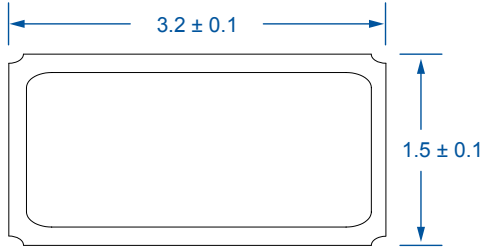
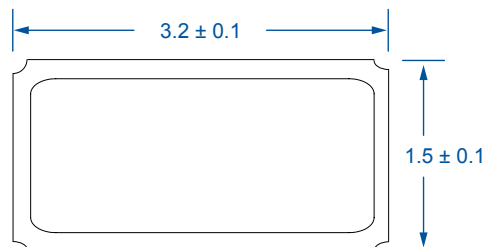
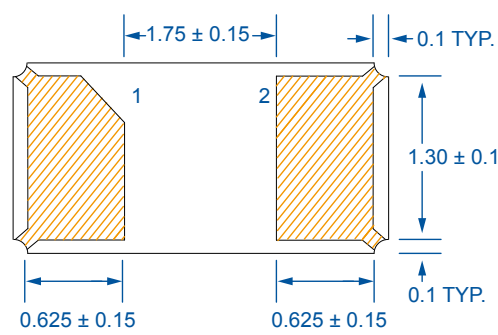
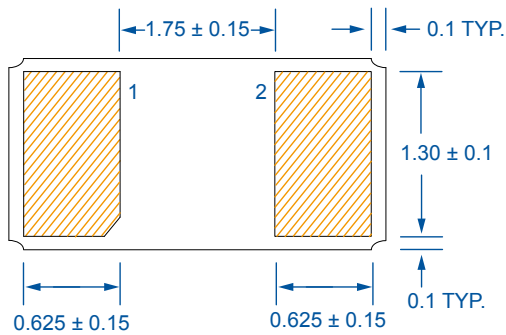
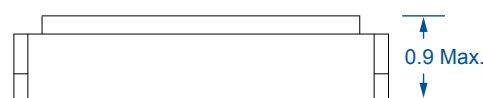
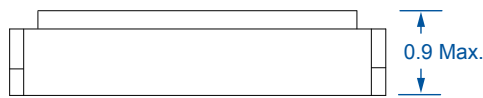
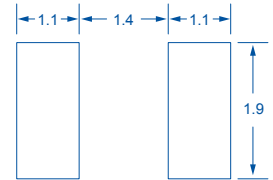


Figure 2



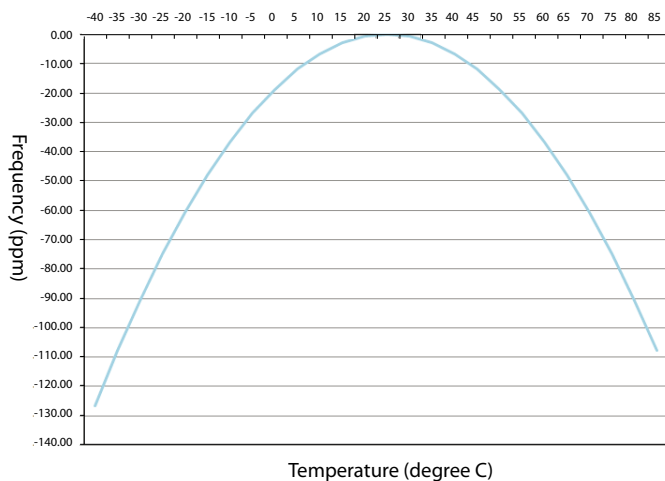
Recommended Land Pattern:



Pin Functions:

Pin	Function
1	Xtal
2	Xtal

Typical Temperature Characteristic:



Frequency Deviation at Temperature T
 $Df/f = K(T_0 - T)^2$



A product Line of
Diodes Incorporated



G8 Series Quartz Crystal
32.768 kHz SMD Crystal | 3.2 x 1.5mm

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2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.

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