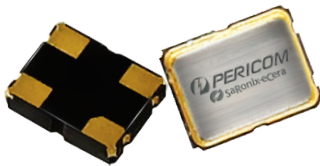


Quartz Crystal Ceramic SMD

FHQ



2.5 x 2.0mm Ceramic SMD

Product Features

- Rugged AT-cut crystal construction
- Miniature 2.5 x 2.0mm ceramic package
- Available on tape & reel; 8mm tape, 3000 units per reel
- Pb-free and RoHS/Green compliant

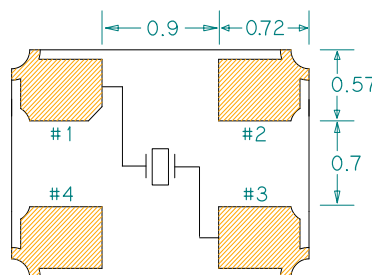
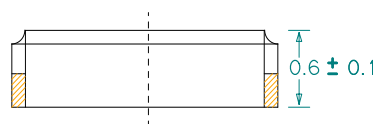
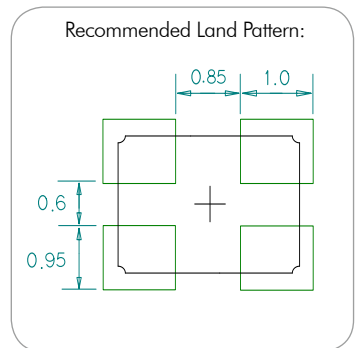
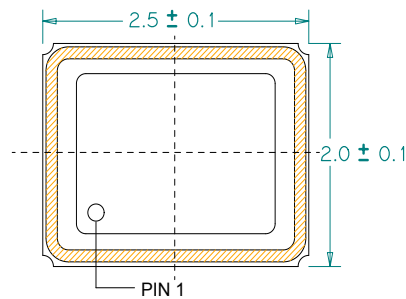
Product Description

The 4-pad FH Series seam seal devices incorporate a sub-miniature AT-cut crystal resonator housed in a standard 2.5 x 2.0mm ceramic package. These compact crystal are ideal for surface mounting in densely populated PCB applications.

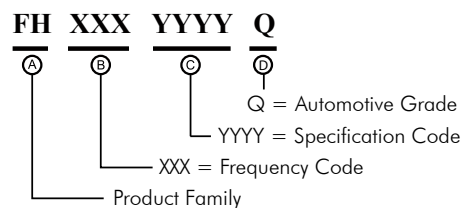
Applications

- Portable / hand-held PCs
- PCMCIA Cards
- Notebook PC
- Bluetooth
- Wireless LAN
- UWB
- ZigBee
- USB
- GPS
- HDD
- GSM, CDMA, GPRS

Package: (Dimensions are in mm)



Part Ordering Information:



Following the above format, SaRonix-eCera part numbers will be assigned upon confirmation of exact customer requirements.

- Frequency Calibration Tolerance: $\pm 10\text{ppm}$ to $\pm 50\text{ppm}$
- Load Capacitance: 7 to 32pF or Series Resonance
- Effective Series Resistance (ESR):
 - 12.0000MHz to 19.9999MHz: 140 Ω max
 - 20.0000MHz to 29.9999MHz: 70 Ω max
 - 30.0000MHz to 66.0000MHz: 50 Ω max
- Drive Level: 10 μW typ. 100 μW max
- Shunt Capacitance: 5pF Max.

Temperature Range:

- Operating: -20 to $+70^\circ\text{C}$; -40 to $+85^\circ\text{C}$ (AECQ Grade 3)
- Storage: -55 to $+125^\circ\text{C}$

Temperature Stability:

- $\pm 10\text{ppm}$ to $\pm 50\text{ppm}$ (-20 to $+70^\circ\text{C}$)
- $\pm 15\text{ppm}$ to $\pm 50\text{ppm}$ (-40 to $+85^\circ\text{C}$)

Aging at 25°C, First Year:

- $\pm 3\text{ppm}$ Max

Reflow Temperature:

- 260 $^\circ\text{C}$ Max, 10 seconds max