

Quartz Crystal Ceramic SMD

FYQ



5.0 x 3.2mm Ceramic SMD

Product Features

- Rugged AT-cut crystal construction
- Miniature 5.0 x 3.2mm ceramic package
- Available on tape & reel; 12mm tape, 1000 units per reel
- Pb-free and RoHS/Green compliant

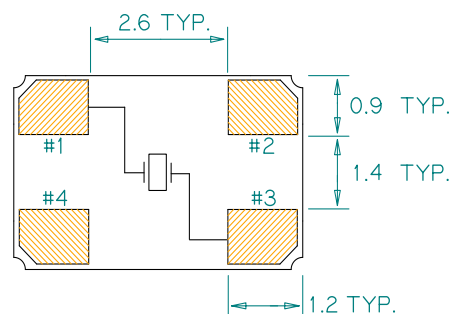
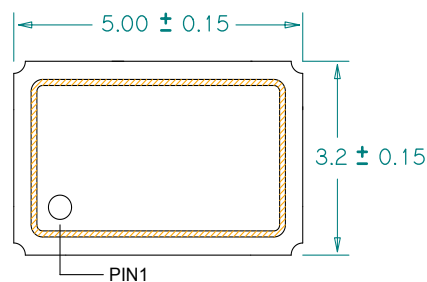
Product Description

The 4-pad FY Series seam seal devices incorporate a sub-miniature AT-cut crystal resonator housed in a standard 5.0 x 3.2mm ceramic package. These compact crystal are ideal for surface mounting in densely populated PCB applications.

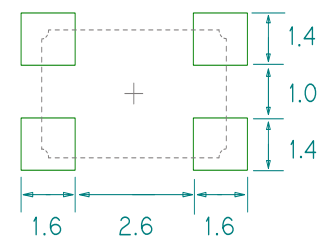
Applications

- PCMCIA Cards
- Portable / hand-held PCs
- Notebook PC
- Wireless LAN
- Portable Multimedia Devices
- GPS
- HDD
- Bluetooth
- USB Dongle

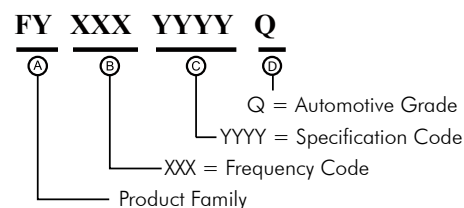
Package: (Dimensions are in mm)



Recommended Land Pattern:



Part Ordering Information:



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

Frequency Range:

- 8.0000 MHz to 59.9999 MHz (Fundamental)
- 60.0000 MHz to 125.0000 MHz (3rd Overtone)

Characteristics at 25°C ±3°C:

- Frequency Calibration Tolerance: ±10ppm to ±50ppm
- Load Capacitance: 8 to 32pF or Series Resonance
- Effective Series Resistance (ESR):
 - Fundamental:
 - 8.0000MHz to 11.9999MHz: 100Ω max
 - 12.0000MHz to 15.9999MHz: 60Ω max
 - 16.0000MHz to 31.9999MHz: 50Ω max
 - 32.0000MHz to 59.9999MHz: 40Ω max
 - 3 Overtone:
 - 60.0000MHz to 79.9999MHz: 100Ω max
 - 80.0000MHz to 99.9999MHz: 80Ω max
 - 100.0000MHz to 125.0000MHz: 60Ω max
- Drive Level: 10μW typ. 100μW max
- Shunt Capacitance: 5pF Max.

Temperature Range:

- Operating: -20 to +70°C; -40 to +85°C (AECQ Grade 3)
- Storage: -55 to +125°C

Temperature Stability:

- ±10ppm to ±50ppm (-20 to +70°C)
- ±15ppm to ±50ppm (-40 to +85°C)

Aging at 25°C, First Year:

- ±3ppm Max

Reflow Temperature:

- 260°C Max, 10 seconds max