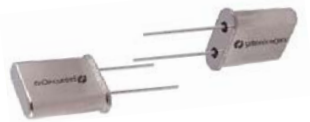


Quartz Crystal Metal Can (TH)

GA



11.2 x 4.8 x 13.5mm Thru-Hole

Product Features

- AT-cut performance
- Resistance weld seal
- Low cost
- Versatile
- Pb-free and RoHS/Green compliant

Product Description

The GA series is an industry standard AT-cut crystal that is housed in Mil standard package.

Applications

- Set-Top Box/Multimedia
- Clock/VCXO Multiplier
- Network Adapter Cards
- Modems
- Microcontrollers and Processors
- Remote control devices

Frequency Range:

- 1.8432 to 30.0000 MHz, Fundamental
- 25.0001 to 125.0000 MHz, 3rd Overtone
- 80.0000 to 150.0000 MHz, 5th Overtone

Characteristics at 25°C ±2°C:

- Frequency Calibration Tolerance: ±30ppm
- Load Capacitance: 12 to 32pF or Series Resonance
- Effective Series Resistance (ESR):
 Fundamental: 20 to 70Ω max depending on frequency
 3rd Overtone: 40 to 80Ω max depending on frequency
 5th Overtone: 120Ω Max
- Drive Level: 100μW typ. (1mW Max)
- Shunt Capacitance: 7pF Max

Temperature Range:

- Operating: -20 to +70°C or -40 to +85°C
- Storage: -55 to +125°C

Temperature Stability:

- ±30ppm (-20 to +70°C)
- ±50 or ±100ppm (-40 to +85°C)

Aging @ 25°C, first year:

- ±3ppm Max

Reflow Temperature:

- 260°C Max, 10 seconds Max (RoHS package)

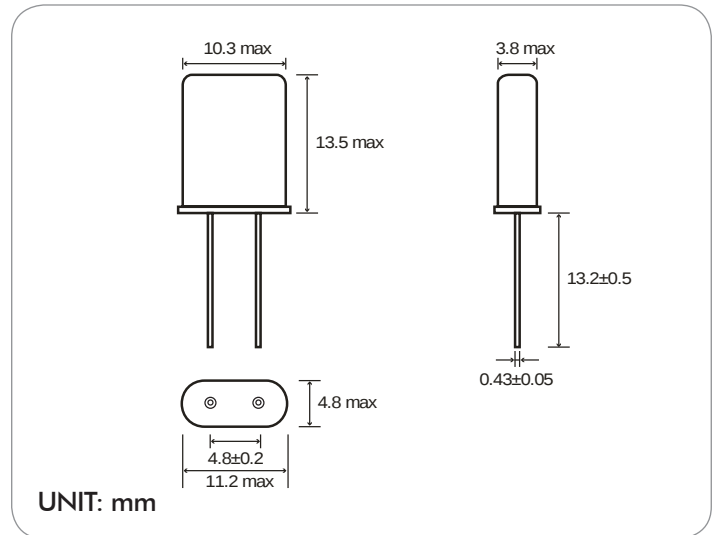
Mechanical:

- Shock: JESD22-B104 Condition B
- Solderability: MIL-STD-883, Method 2003 (non-RoHS package)
- Solderability: J-STD-002 (RoHS package)
- Terminal Strength: MIL-STD-883 Method 2004
- Vibration: JESD22-B103
- Solvent Resistance: JESD22-B107
- Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition I or J (Non-RoHS package)
- Resistance to Soldering Heat: J-STD-020C Table 5-2 Pb-free devices (3 cycles max) (RoHS package)

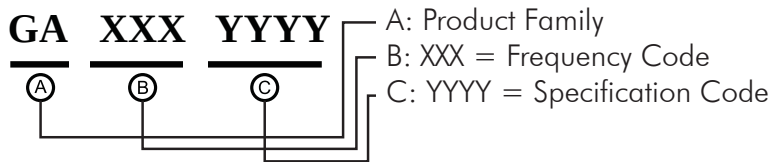
Environmental:

- Gross Test Leak: JESD22-A109, Condition C
- Fine Test Leak: JESD22-A109, Condition A1
- Moisture Resistance: JESD22-A113
- Insulation Resistance: 500 MΩ min (100 VDC)

Mechanical Drawings: GA Series

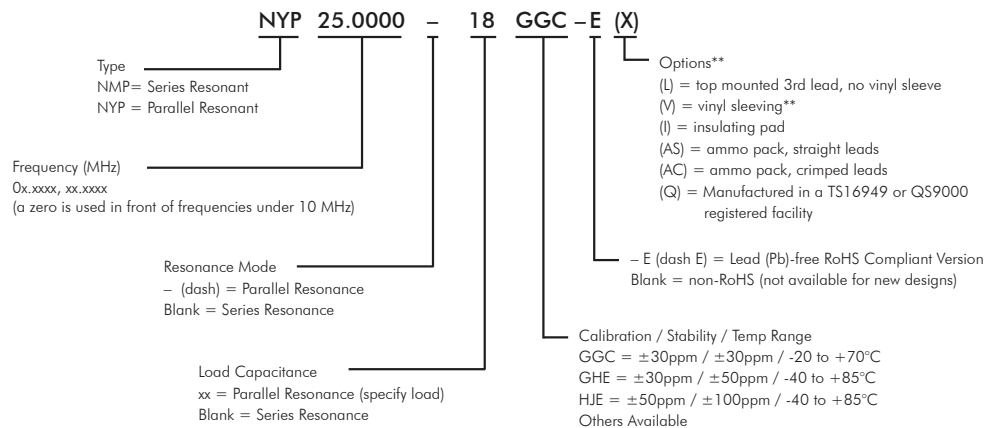


Part Ordering Information:



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

Legacy Ordering Information - For Reference Only:



Part Number Example:

Part Number Example: Spec: Freq 5.1234MHz, ±30ppm calib, ±30ppm stab, -20 to +70°C, 16pF
= NYP05.1234-16GGC
= NYP05.1234-16GGC-E (for lead-free)