

GC/GF Series Quartz Crystal Legacy 49SMLB Series 11.5 x 4.5 x 4.0mm & 11.5 x 4.5 x 3.0mm

Quartz Crystal Metal Can (SMD)





11.5 x 4.5 x 4.0mm SMD

Product Features

- Standard: 4.0mm Max height GC Series
- Low profile: 3.0mm Max height GF Series
- Available on tape & reel, 24mm tape, 1000 units per reel
- Pb-free and RoHS/Green compliant.

Product Description

The crystals are miniature AT or BT cut strip resonators housed in low profile packages for surface mounting. The parts utilize a proven, low-cost, metal package technology with a precision molded base and universal contact configuration.

Applications

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

Frequency Range:

- •3.2 to 36.000 MHz, AT Fundamental
- •30.0 to 125.000 MHz, AT 3rd Overtone
- •26.8 to 54.000 MHz, BT Fundamental

Characteristics at 25°C ±2°C:

- Frequency Calibration Tolerance: ±30ppm
- •Load Capacitance: 8 to 32pF or Series Resonance
- Effective Series Resistance (ESR):
 - Fundamental: 20 to 200Ω max depending on frequencey 3rd Overtone: 60 to 80Ω max depending on frequency
- Drive Level: 100μ W typ. (500μ W 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) AT Cut
- ±50 or ±100ppm (-40 to +85°C) AT Cut
- •0 to -100ppm (-20 to +70°C) BT Cut

Aging @ 25°C, first year:

•±3ppm Max

Reflow Temperature:

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

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• www.saronix-ecera.com

Quartz Crystal Metal Can (SMD) GC GF

GC/GF Series Quartz Crystal Legacy 49SMLB Series

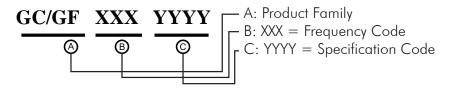
Mechanical:

- •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:

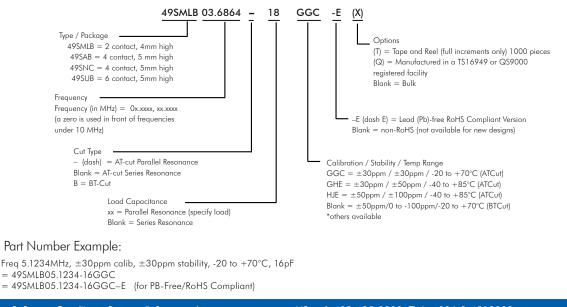
- Gross Test Leak: JESD22-A109, Condition C
- Fine Test Leak: JESD22-A109, Condition A1
- •Moisture Resistance: JESD22-A113
- •Insulation Resistance: 500 MΩ min (100 VDC)

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:



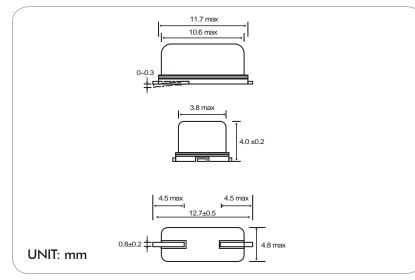
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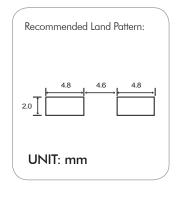


Quartz Crystal Metal Can (SMD) GC GF

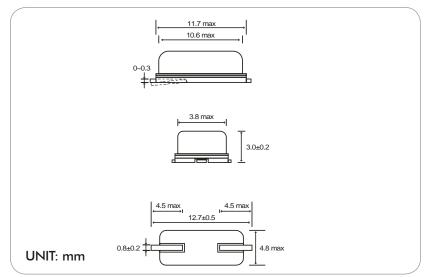
GC/GF Series Quartz Crystal Legacy 49SMLB Series

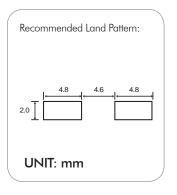
Mechanical Drawings: GC Series





Mechanical Drawings: GF Series (Low Profile)





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