

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 40.000 MHz, AT Fundamental
- •30.0 to 54.000 MHz, AT 3rd Overtone
- •40.0 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: 40 to 100Ω max depending on frequency

- Drive Level: $100\mu W$ typ. $(500\mu W Max)$
- •Shunt Capacitance: 7pF Max

Temperature Range:

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

Temperature Stability:

- ± 10 , ± 20 , ± 30 ppm (-20 to +70°C) AT Cut
- ± 30 , ± 50 ppm (-40 to +85°C) AT Cut
- •0 to -100ppm (-20 to +70°C) BT Cut

Aging @ 25°C, first year:

• ±5ppm Max

Reflow Temperature:

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

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Quartz Crystal Metal Can (SMD) GC

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)

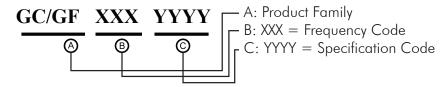
Environmental:

Gross Test Leak: JESD22-A109, Condition C
Fine Test Leak: JESD22-A109, Condition A1

Moisture Resistance: JESD22-A113

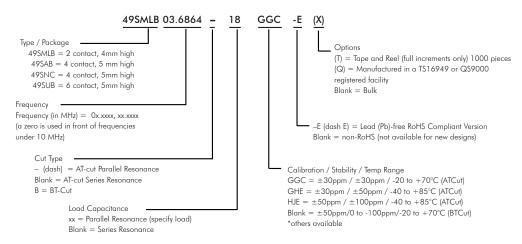
•Insulation Resistance: 500 MΩ min (100 VDC)

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:



Part Number Example:

Freq 5.1234MHz, $\pm30ppm$ calib, $\pm30ppm$ stability, -20 to $+70^{\circ}C$, 16pF

= 49SMLB05.1234-16GGC

= 49SMLB05.1234-16GGC-E (for PB-Free/RoHS Compliant)

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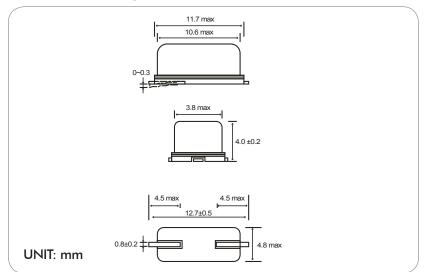
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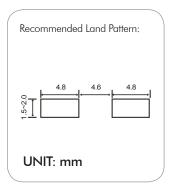


Quartz Crystal Metal Can (SMD) GC

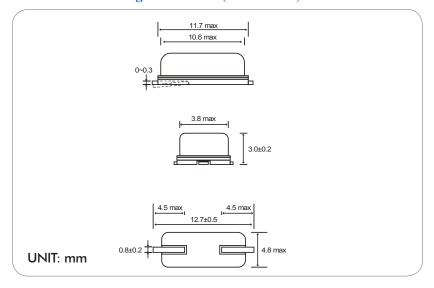
GC/GF Series Quartz Crystal Legacy 49SMLB Series

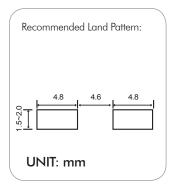
Mechanical Drawings: GC Series





Mechanical Drawings: GF Series (Low Profile)





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<u>GC2500032</u> <u>GC0360007</u> <u>GC0800032</u> <u>GC2500045</u> <u>GC1430040</u> <u>GF1200016</u> <u>GC2500043</u> <u>49SMLB12.0000-</u>22GGC-E(T) 49SMLB250-18-E(T) 49SMLB08.0000-20GHC-E(T) GC2000034 GC2000040