

Quartz Crystal Metal Can (TH)



11.2 x 5.0 x 3.5mm Thru-Hole

Product Features

- Standard: 3.5mm Max height GB Series
- Low profile: 2.5mm Max height GG Series
- AT or BT cut performance
- Resistance weld seal
- Pb-free and RoHS/Green compliant

Product Description

The GB/GG Series is a miniature, AT or BT cut strip resonator crystal, housed in low profile metal can package.

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: $60 \text{ to } 80\Omega$ max depending on frequency

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

Temperature Range:

- \bullet 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 ± 100 ppm (-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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Quartz Crystal Metal Can (TH) GB GG

GB/GG Series Quartz Crystal Legacy 49S 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)

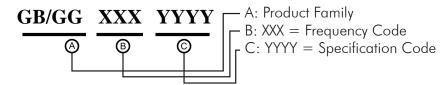
Environmental:

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

Moisture Resistance: JESD22-A113

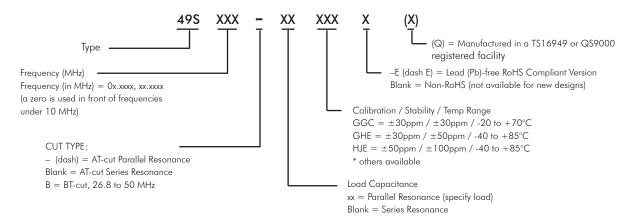
•Insulation Resistance: 500 MΩ min (100 VDC)

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, ±30ppm calib, ±30ppm stab, -20 to +70°C, 16pF = 49S05.1234-16GGC = 49S05.1234-16GGC-E (for lead-free)

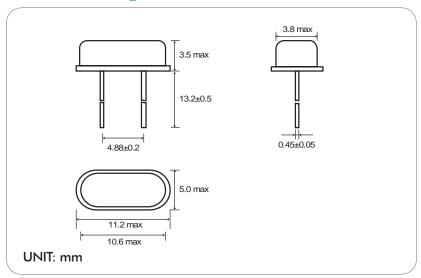
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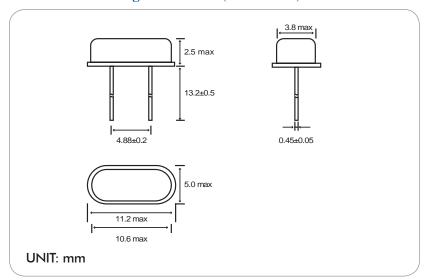
Quartz Crystal Metal Can (TH) GB GG

GB/GG Series Quartz Crystal Legacy 49S Series

Mechanical Drawings: GB Series



Mechanical Drawings: GG Series (Low Profile)





GB/GG REV2008_OCT08_01.4