

Product Description

The GG Series is a miniature, AT cut strip resonator crystal, housed in low profile 2.5mm high packaging.

Product Features

- Low profile 2.5mm height
- AT cut performance
- Resistance weld seal
- Pb-free and RoHS/Green compliant

Typical Applications

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

Frequency Range:

- 3.500 to 36.000 MHz (Fundamental)
- 30.000 to 125.000 MHz (3rd Overtone)

Characteristics at 25°C ±2°C:

- Frequency Tolerance: ±30, ±50ppm
- Load Capacitance: 12 to 32pF or Series Resonance
- Effective Series Resistance:
 - Fundamental: 20 to 150ohm depending on frequency
 - 3rd Overtone: 60 to 80ohm depending on frequency
- Standard Drive Level: 100µW (500µW Max)
- Shunt Capacitance: 7pF Max.

Temperature Range:

- Operating: -20 to +70°C ; -40 to +85°C (as specified)
- Storage: -55 to +125°C

Temperature Stability (as specified):

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

Aging @ 25°C, first year:

- ±3ppm, Max.

Mechanical:

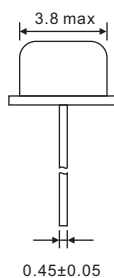
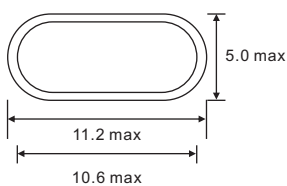
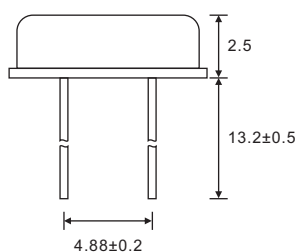
- Shock: JESD22-B104 Condition B
- Solderability: JESD22 method 1 (Predconditioning E) RoHS package
- Terminal Strength: MIL-STD-883 Method 2004
- Vibration: JESD22-B103
- Solvent Resistance: JESD22-B107
- Resistance to Soldering Heat: JESD22-B106 (RoHS Package)

Environmental:

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

Reflow Temperature:

- 260°C Max, 10 Seconds Max

Packaging Information:
Dimensions (UNIT: mm)

Part Number Example:

G	G	2	5	0	0	0	0	1
A	B	C						

A:Product series
B:Digit of frequency
C:Internal specification