

RTF2012 – SMD Tuning Fork Crystal

2.0 x 1.2 mm, SMD

Product Features

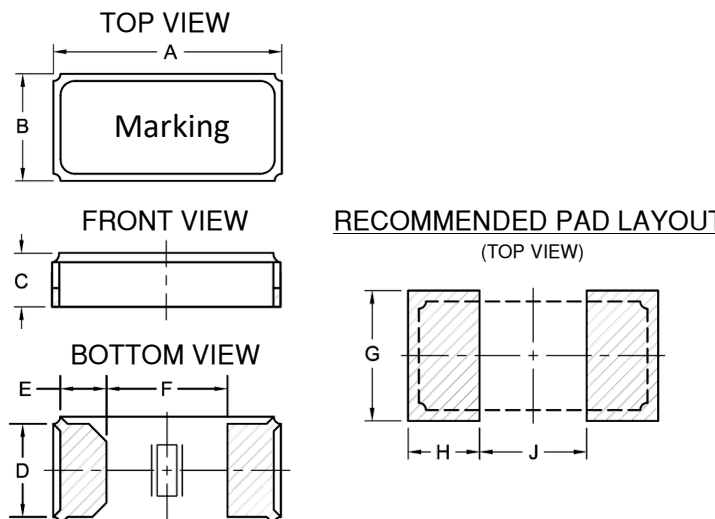
- Compact, low profile (2.0 x 1.2 x 0.6 mm) and lightweight SMD tuning fork crystal resonator.
- Ceramic package and metal lid assures extreme accuracy and high-reliability through utilising electron beam sealing method.
- Applications: Microprocessors, Mobile Communications, DVC / DSC, SSD /HDD, GNSS and general purpose.



Frequency and Electrical Characteristics

| Parameter | Min. | Typ. | Max. | Unit | Test condition / Description |
|---|------|------------------------------|------|---------------------|------------------------------|
| Nominal frequency (Fn) | | 32.768 | | kHz | |
| Frequency tolerance | | ±20 | | ppm | At 25°C |
| Turnover temperature (°C) | | 25 ±5 | | °C | |
| Parabolic coefficient | | -0.03 ±0.01 | | ppm/°C ² | |
| Motional capacitance | | 5.0 | | fF | |
| Drive level | | | 0.5 | µW | |
| Operating temperature range | -40 | | +85 | °C | |
| Storage temperature range | -55 | | +125 | °C | |
| Load capacitance (Lc) Standard part number ¹ : 106466 106082 106180 | | 6, 9, 12.5 6 9 12.5 | | pF | ±20 ppm frequency tolerance |
| Motional resistance (ESR) | | | 80 | kΩ | |
| Standard Packing Quantity (SPQ) | | | 9000 | pcs/reel | Φ300mm reel |

Model Outline, Recommended Pad Layout and Marking



| Code | Dimension (mm) |
|------|----------------|
| A | 2.0 ± 0.1 |
| B | 1.2 ± 0.1 |
| C | 0.6 max. |
| D | 1.0 ± 0.1 |
| E | 0.5 ± 0.1 |
| F | 0.8 ± 0.1 |
| G | 1.4 ± 0.1 |
| H | 0.7 ± 0.1 |
| J | 0.8 ± 0.1 |

¹ Consult Rakon sales representatives for other specifications. All specifications and markings are subject to change without notice.