Crystal unit

SEIKO EPSON CORPORATION





④Frequency tolerance(x 10⁻⁶, +25 °C)

Specifications (characteristics)

| Item | Symbol | Specifications | | | Conditions / Remarks |
|-----------------------------------|--------|---|--|--------------------------------|---|
| | | FC-12D | FC- | 12M | Conditions / Remarks |
| Nominal frequency range | f_nom | 32.768 kHz | 32.768 kHz | 32 kHz to 77.5 kHz | Please contact us about available frequencies. |
| Storage temperature | T_stg | -55 °C to +125 °C | | | Storage as single product. |
| Operating temperature | T_use | | -40 °C to +85 °C | | |
| Level of drive | DL | 0.25 μW Max. | 0.5 μW Max. | | |
| Frequency tolerance (standard) | f_tol | $\pm 20 \times 10^{-6}$ | ±20 × 10 ⁻⁶ ±30 × 10 ⁻⁶ | | +25 °C, DL=0.1 μW Please ask for tighter tolerance |
| Turnover temperature | Ti | +25 °C ±5 °C | | | |
| Parabolic coefficient | В | $-0.04 \times 10^{-6} / \circ C^2$ Max. | | | |
| Load capacitance | CL | 7 pF, 9pF, 12.5pF | 12.5pF | | Please specify |
| Motional resistance (ESR) | R1 | 75 k Ω Max. | 90 k Ω Max. | 90 k Ω to 65 k Ω | |
| Motional capacitance | C1 | 3.7 fF Typ. | 6.4 fF Typ. | 7.0 fF to 2.7 fF | |
| Shunt capacitance | Co | 0.8 pF Typ. | 1.3 pF Typ. | 1.6 pF to 0.8pF | |
| Frequency aging | f_age | $\pm 3 \times 10^{-6}$ / year Max. | | | +25 °C, First year |

Product name (Standard form) FC-12D 32.768000kHz 12.5 +20.0-20.0 1 2 3 4 Model ③Load capacitance(pF) ②Frequency

External dimensions

