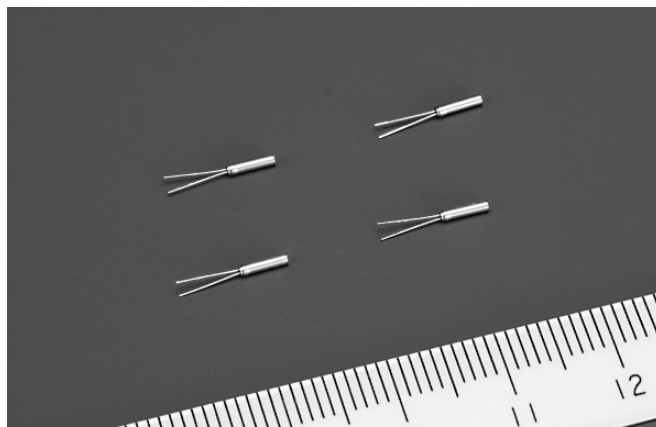


VTC-120-F



FEATURES

- Compact 1.2 ϕ tubular package.
- Photolithographic process.
- Excellent shock resistance and environmental characteristics.
- RoHS directive compliant.
- Complete Pb-free.

APPLICATIONS

Radio Controlled Clocks and Watches

STANDARD SPECIFICATIONS

Conditions without notice (Temperature: +25 \pm 2°C, DL: 0.1 μ W)

Item	Symbol	Specifications		Conditions / Notes
Nominal Frequency	f_nom	40.0kHz	60.0kHz to 77.5kHz	
Frequency Tolerance	f_tol	$\pm 20 \times 10^{-6}$, $\pm 50 \times 10^{-6}$		
Turnover Temperature	Ti	+25 \pm 8°C		
Parabolic Coefficient	B	$(-3.5 \pm 1.0) \times 10^{-8}/^{\circ}\text{C}^2$		
Load Capacitance	CL	Series or 10pF		
Motional Resistance (ESR)	R1 max.	65k Ω	50k Ω	
Absolute Maximum Drive Level	DLmax	1 μ W		
Level of Drive	DL	0.1 μ W		
Shunt Capacitance	Co	0.7pF to 0.8pF		
Frequency Ageing	f_age	$\pm 5 \times 10^{-6}$		+25 \pm 3°C, First Year
Operating Temperature	T_use	-20°C to +60°C		
Storage Temperature	T_stg	-30°C to +70°C		Piece part basis

* Please feel free to contact us for inquiries about other frequencies in need.

DIMENSIONS

VTC-120-F

