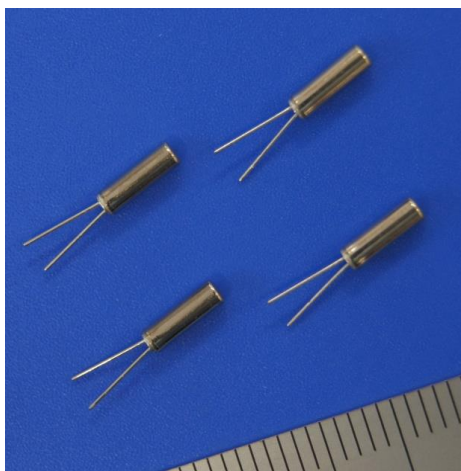


VT-200-F



FEATURES

- Compact tubular package.
- A crystal resonator processed by high reliable photolithographic technology inside.
- Excellent shock resistance and environmental characteristics.
- Complies with EU RoHS directive.
- Pb-free.

APPLICATIONS

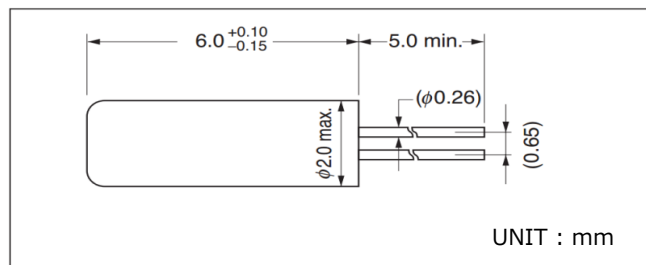
Clocks, Timers, Water/Electricity Meter, Remote-controllers, Sub-clock function for a variety of Microcomputer, etc.

STANDARD SPECIFICATIONS

Conditions where not specified (Temperature: 25±2°C, DL:0.1μW)

Item	Symbol	Specifications	Conditions / Note
Nominal Frequency	f _{nom}	32.768kHz	
Frequency Tolerance	f _{tol}	±5×10 ⁻⁶ , ±10×10 ⁻⁶ , ±20×10 ⁻⁶	※Please contact us for inquiries regarding available tolerance.
Turnover Temperature	T _i	+25±5°C	
Parabolic Coefficient	B	(-0.035±10%)×10 ⁻⁶ /°C ²	
Load Capacitance	C _L	7.0pF, 9.0pF, 12.5pF	※Please contact us for inquiries regarding available CL.
Motional Resistance (ESR)	R ₁	50kΩ max.	
Absolute Maximum Drive Level	DL _{max.}	1.0μW max.	
Level of Drive	DL	0.1μW typ.	
Shunt Capacitance	C ₀	0.9pF typ.	
Frequency Ageing	f _{age}	±3×10 ⁻⁶	+25±3°C, First Year
Operating Temperature	T _{use}	-40~+85°C	
Storage Temperature	T _{stg}	-40~+85°C	Piece part basis

DIMENSIONS



Remark: Please make sure that there is no pattern under VT-200-F on the circuit board.