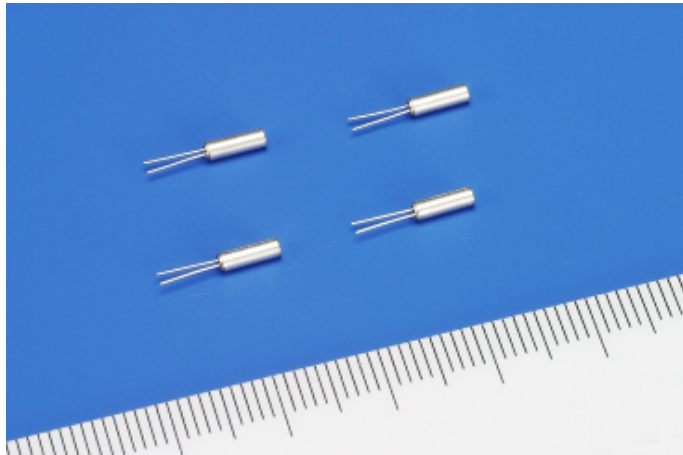


VT-200-FL



Features

- Consumes one tenth the standby power of general crystal resonators (with a load capacitance of 12.5pF)
- Photolithographic process
- Excellent low drive level characteristics.
- Complete Pb-free
- Complies with EU RoHS directive

Applications

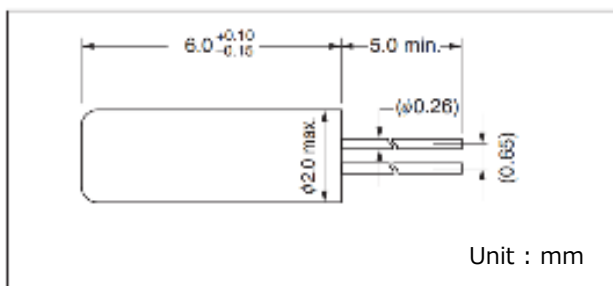
- Consumer-electronics products for saving standby energy consumption.
- Battery operated devices requiring a long battery life.

Standard Specifications

(Temperature: 25±2°C, DL;0.1μW)

Item	Symbol	Specifications	Conditions Note
Nominal Frequency	f_nom	32.768kHz	
Frequency Tolerance	f_tol	±20×10 ⁻⁶	Please specify
Turnover Temperature	Ti	+25±5°C	
Parabolic Coefficient	B	(-0.035±10%)×10 ⁻⁶ /°C ²	
Load Capacitance	CL	3.7pF,4.4pF,6.0pF	
Motional Resistance (ESR)	R1	50kΩ max.	
Absolute Max. Drive Level	DLmax.	1.0μW max.	
Drive Level	DL	0.01μW typ.	
Shunt Capacitance	C0	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



CAUTION

The VT-200-FL is designed for use in ultra-low-power microcontrollers. Do not use this resonator in regular microcomputer as it might cause problems with oscillation.

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