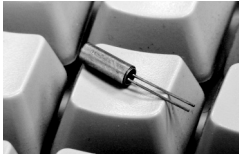


MMCC-2 Series Tuning Fork Crystals



Precision 32.768 kHz quartz crystals for realtime applications

The majority of applications use a 32.768 kHz crystal in an oscillator circuit incorporating binary division to produce a 1 Hz output.

*MMCC-2-R

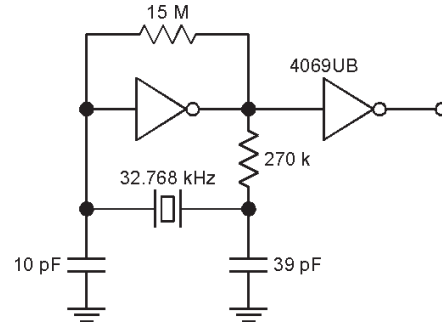
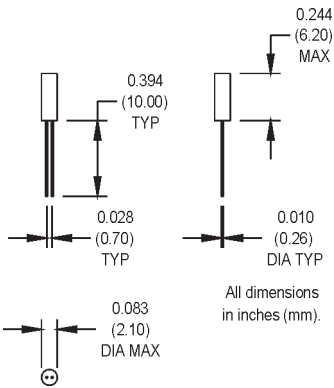
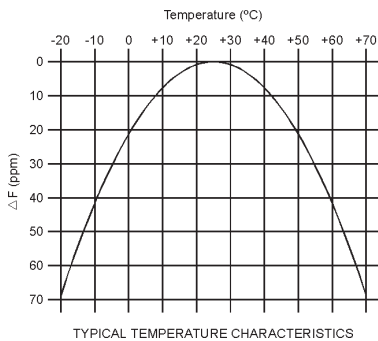


Table 1



		PARAMETERS	VALUE
Electrical Specifications	Frequency	32.768 kHz	
	Tolerance @ +25°C	±30 ppm	
	Aging	±3 ppm/yr. Max.	
	Shunt Capacitance MMCC-2	1.35 pF, Typical	
	Load Capacitance MMCC-2	12.5 pF, Typical	
	Standard Operating Conditions	See Table 1	
	Storage Temperature	-40°C to +85°C	
	Equivalent Series Resistance (ESR), Max. MMCC-2	35 Kohms	
	Resonance	Parallel	
	Quality Factor	70,000 Min.	
	Turnover Temperature	+25°C to ±5°C	
	Parabolic Curvature Constant	-0.034 ppm/°C ² , Typical	
	Drive Level	1.0 μW Max.	
	Environmental	Holder	Compression seal
Mechanical Shock		MIL-STD-202, Method 213, C	
Vibration		MIL-STD-202, Method 201 & 204	
Thermal Cycle		MIL-STD-883, Method 1010, B	
Maximum Wave Soldering Conditions		+260°C for 10 secs.	

* Series resonant designated by "SR" prefix (i.e., SRMMCC-1).
Use MtronPTI part number 375-05A for ±20 ppm tolerance (MMCC-2).
Contact the factory for specifications not listed.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.