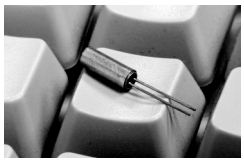
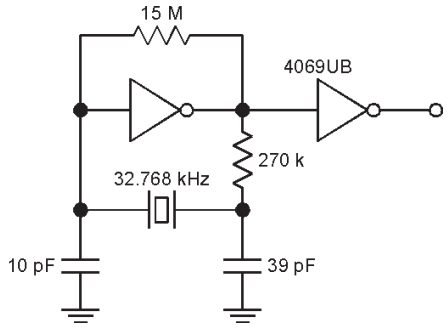
MMCC-2 Series
Tuning Fork Crystals



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**

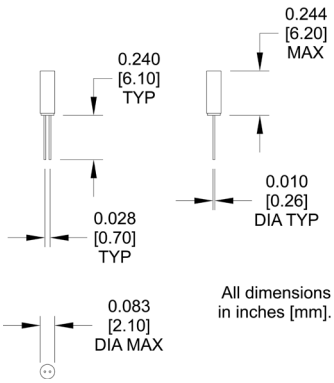
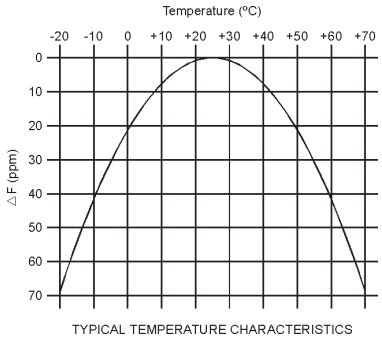


Table 1



TYPICAL TEMPERATURE CHARACTERISTICS

	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.