



QUARTZ CRYSTAL - HCT3x8 SERIES

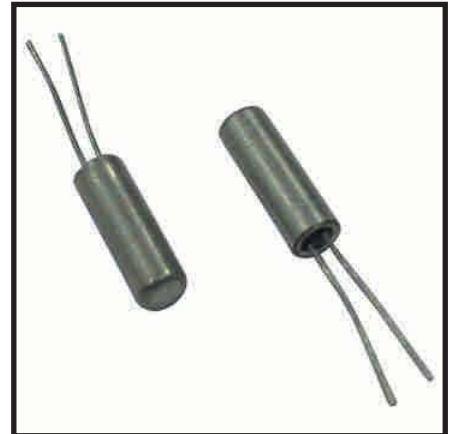
Tuning Fork Watch Crystal Through Hole Package

FEATURES

- Wide Frequency range
- High shock tolerance
- Small size
- Reliable frequency stability

APPLICATION

- Microprocessor Systems
- Consumer Electronics
- Instrumentation
- Automotive Electronics



ELECTRICAL SPECIFICATIONS

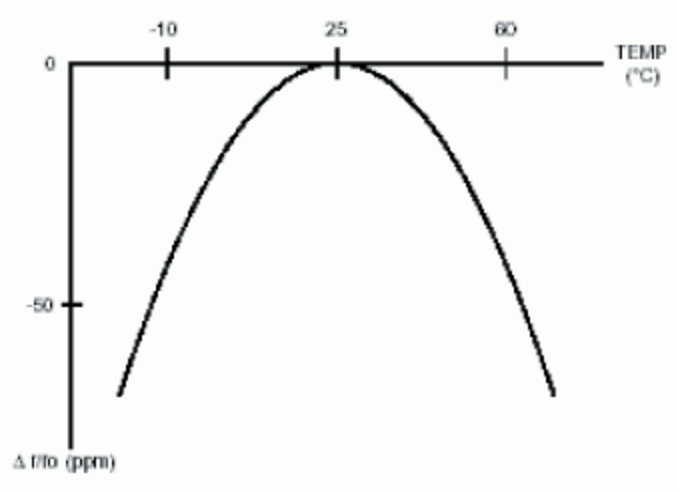
frequency (f_0)	32.768KHz
Frequency tolerance ($\Delta f/f_0$)	$\pm 20 \sim \pm 100$ ppm
Equivalent series resistance (ESR)	40K Ω max
Turnover Temperature (T_0)	25°C \pm 5°C
Operating Temperature	-10 to 60°C (Standard) <i>optional:</i> -20 to 70°C , -40 to 85°C
Storage Temperature	-55 to 125°C
Frequency Temperature Curve	-0.034ppm/°C ² Max
Load Capacitance (C_L)	6pF~12.5pF or specify
Shunt capacitance(C_0)	2.0pF
Dynamic Capacitance (C1)	4.0pF
Drive Level (D_L)	1 μ W Max
Aging (f_a)	± 3 ppm/year



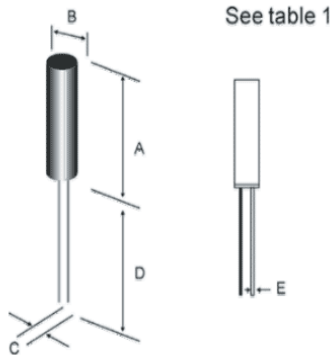
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Frequency vs Temperature Curve



Dimensions



Model	A	B	C	D	E
3x8	8.3	3.1	1.1	10.0	0.3

Ordering

HCT3x8-	32.768	- 12.5	- 20	- A
Series	Frequency in MHz	Load Capacitance (pf)	Frequency Tolerance in ppm	Operating Temperature Range
		6 ~ 12.5pF	± 20 (std)	A= -10 to 60°C (std) B= -20 to 70°C C= -40 to 85°C