



QUARTZ CRYSTAL - HCS308C SERIES

Tuning Fork Watch Crystal

Surface Mount Package

FEATURES

- Molded Crystal package to meet today's demand for pick and place processing.
- Available on tape and reel in quantities of 3K for SMT placement.



ELECTRICAL SPECIFICATIONS

frequency f_0	32.768KHz
Frequency tolerance $\Delta f/f_0$	$\pm 20 \sim \pm 100$ ppm
Equivalent series resistance (ESR)	30K Ω ~50K Ω max
Turnover T_0	25°C \pm 5°C
Operating temperature	-40 to 85°C
Storage temperature	-55 to 125°C
Quality Factor Q	100000 typ
Frequency vs temp	-0.034ppm/°C ² Max
Insulation resistance I_R	≥ 500 M Ω
Load Capacitance C_L	6pF~12.5pF
Shunt capacitance(C_0)	1.3pF
Dynamic Capacitance C_1	2.4pF
Drive Level D_L	1 μ W Max
Aging f_a	± 3 ppm/year



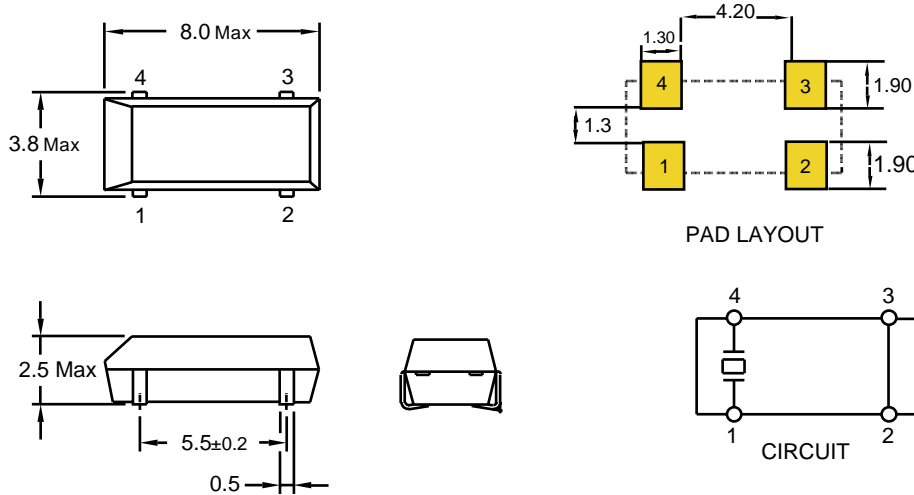

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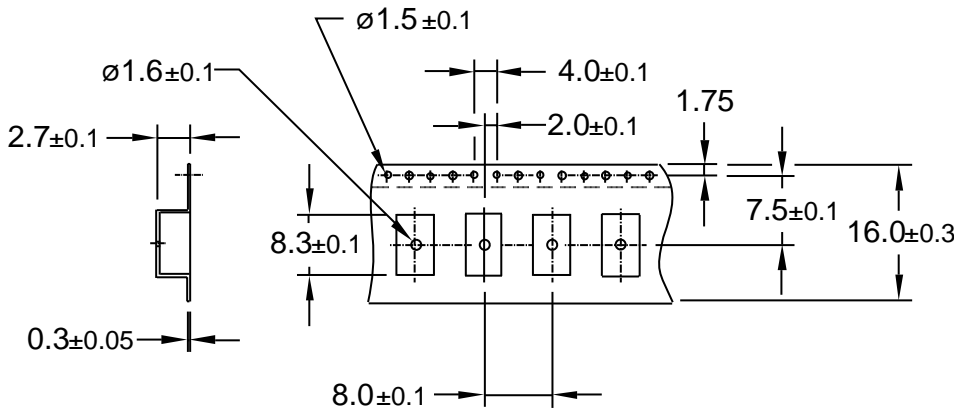
Tuning Fork Watch Crystal

Surface Mount Package

Packaging and Dimensions (mm)



Tape



Ordering

Series	Frequency in KHz	Load Capacitance (pf)	Frequency Tolerance in ppm	Operating Temperature Range
HCS308C-	32.768K	- 12.5	- 20	- A
		6 ~ 12.5pF	± 20 (std)	A=-10 to 60°C (std) B=-20 to 70°C C=-40 to 85°C