



## 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 $\Omega$ ~50K $\Omega$ 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 <sup>2</sup> Max
Insulation resistance $I_R$	$\geq 500$ M $\Omega$
Load Capacitance $C_L$	6pF~12.5pF
Shunt capacitance( $C_0$ )	1.3pF
Dynamic Capacitance $C_1$	2.4pF
Drive Level $D_L$	1 $\mu$ W Max
Aging $f_a$	$\pm 3$ ppm/year

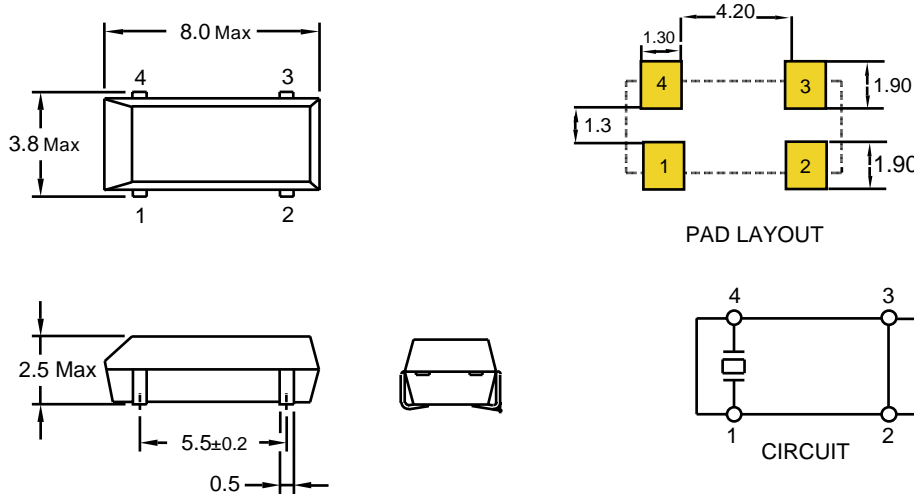


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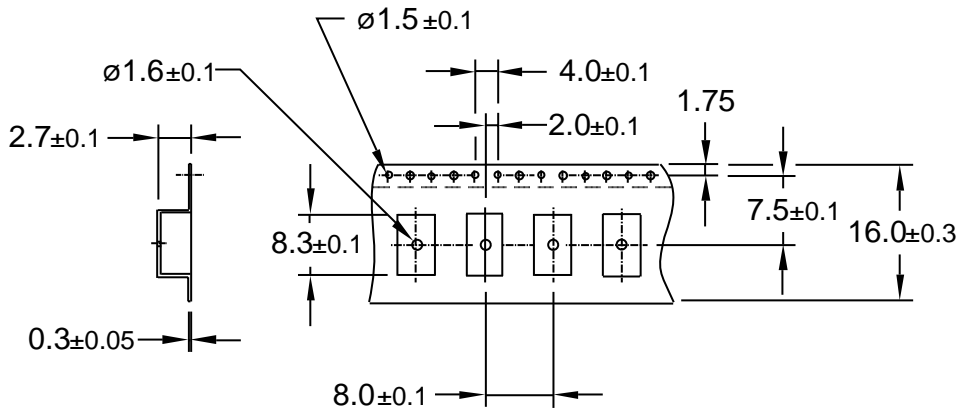
## QUARTZ CRYSTAL - HCS308C SERIES

### Tuning Fork Watch Crystal Surface Mount Package

#### Packaging and Dimensions (mm)



#### Tape



#### Ordering

HCS308C-	32.768K	- 12.5	- 20	- A
Series	Frequency in KHz	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