



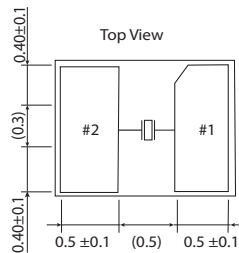
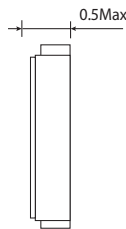
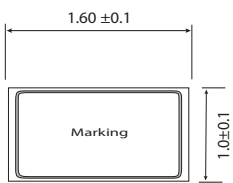
32.768kHz Watch Crystal

AEL 1610 1.6mm x 1.00mm
World's Smallest Watch Crystal - New for 2015



Standard Specifications

Parameter	Symbol	Specification	Remarks
Frequency Range	f_0	32.768 kHz	
Frequency Tolerance	$\Delta f/f$	± 20 PPM (Standard)	at 25°C with 0.1 μ W (± 10 PPM Available)
Frequency Stability	Over OTR	$(-3.0 \pm 1.0) \times 10^{-8}/^{\circ}\text{C}^2$	
Operating Temperature Range	T_{OPR}	-40°C to +85°C	-40°C to +105°C Available
Storage Temperature Range	T_{STG}	-55°C to +125°C	
Load Capacity	C_L	7.0pF (Std value)	9pF, 12.5pF Also Available
Drive-Level	D_L	0.1 μ W Typ.	1.0 μ W Max
ESR	R	60 k Ω Max.	
Motional Capacitance (C1)	C_0	1.3pF	Typical
Ageing	Fa	± 3.0 PPM	Max. at 25°C $\pm 3^{\circ}\text{C}$ 1st Year



Recommended Solder Pattern

