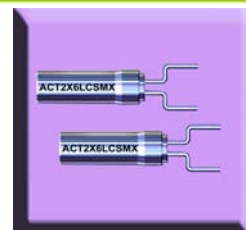


## ACT2x6LCSMX

The **ACT2x6LCSMX** is a miniature surface mount Watch Crystal in a cylindrical package offering high vibration and shock resistance together with high stability. This device is very suitable for portable equipment/hand held units and applications that require close packing density of components.

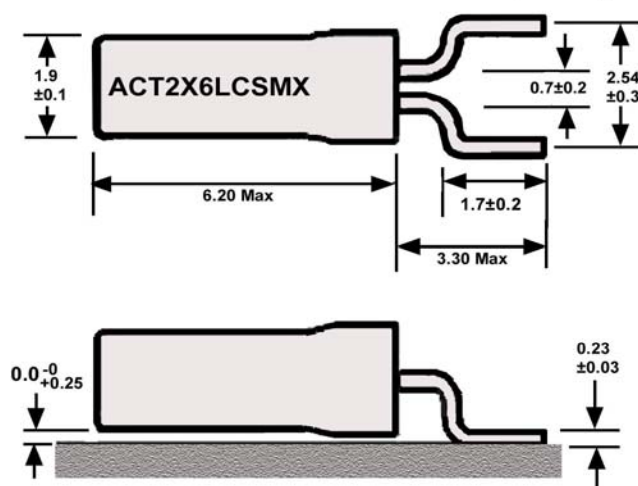
Compatible with Eu Directive  
2002/EC - RoHS



### Specification

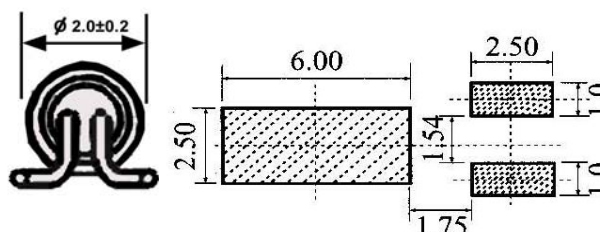
Parameter	Symbol	Specification	Options
Nominal Frequency	$f_0$	32.768KHz	
Frequency Tolerance @25°C	$\Delta f/f_0$	$\pm 20 \sim 100$ ppm @25°C	Please specify
Frequency v Temperature		Please refer to plot on page 2	
Temp Operating Range	$T_{opr}$	$-55 \sim +85^\circ\text{C}$	
Turnover Temperature	$T_m$	$25^\circ\text{C} \pm 1$	
Temperature Coefficient	$\beta$	$\pm 7$ ppm/°C Typical	
Temp Storage Range	$T_{stg}$	$-55 \sim +85^\circ\text{C}$	
Equivalent Series Resistance	ESR	40K $\Omega$ max	
Quality Factor	Q	60 Typical	
Load Capacitance	CL	12.5pF Standard (6pF to 25pF available)	Please specify
Shunt Capacitance	C0	1.4 $\pm 0.2$ pF	
Capacitance Ratio	C0/1	450 Typical	
Motional Capacitance	C1	0.003pF Typical	
Drive Level	DL	1 $\mu$ W max	
Insulation Resistance	IR	500M $\Omega$ @ 100VDC min	
Aging	Fa	$\pm 5$ ppm max First year, $25 \pm 3^\circ\text{C}$	3ppm max available
Max Reflow temperature	Tmax	235°C for 4 seconds	Refer to page 2

### Dimensions (mm)



Lead Surface Material  
SnCu

### Solder Footprint



Please note that all parameters can not necessarily be specified in the same device

Customer to specify : Frequency Tolerance, Load Capacitance

In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

ISO9001:2000 Registered

Issue : 5 C1b  
Date : 11/04/06

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>