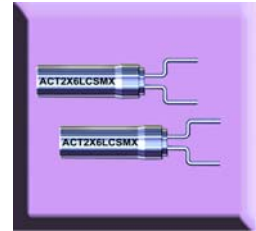


# ACT2x6LCSMX

Compatible with Eu Directive  
2002/EC - RoHS

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.

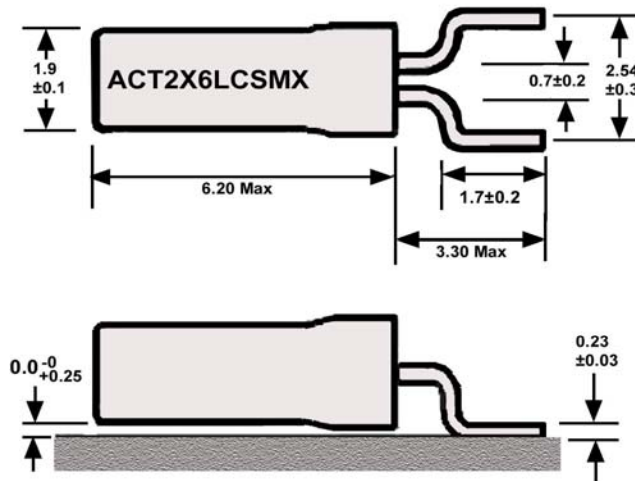


## Specification

Parameter	Symbol	Specification	Options
Nominal Frequency	fo	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	Topr	-55~+85°C	
Turnover Temperature	Tm	25°C $\pm$ 1°C	
Temperature Coefficient	$\beta$	$\pm 7$ ppm/°C typical	
Temp Storage Range	Tstg	-55~+85°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+/-0.2pF	
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 $\pm 3$ °C	3ppm max available
Max Reflow temperature	Tmax	235°C for 4 seconds	Refer to page 2

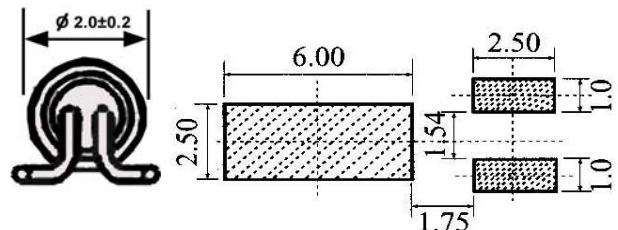
SEE REFERRED FOR NEW TYPE DESIGNS.  
SOME STOCK NEW TYPE ACT2X6HRSMX STILL AVAILABLE.

## 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:  
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<http://www.actcrystals.com>