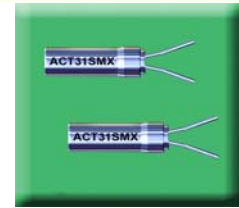


ACT31SMX

Compatible with Eu Directive
 2002/EC - RoHS

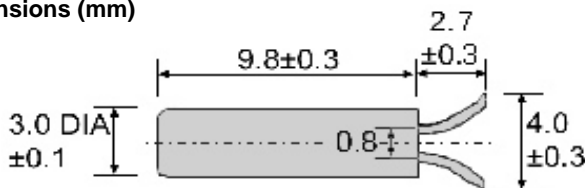


The ACT31SMX is a compact SMD crystal resonator offering high vibration and shock resistance together with high stability. It is very suitable for portable equipment and close packing density. The device is offered with frequencies between 3.579545 and 10.0MHz.

Specification (Reels of 1K pieces)

Parameter	Symbol	Specification	Condition
Frequency	fo	3.579545-10MHz	AT cut Fundamental
Frequency Tolerance @25°C	$\Delta f/fo$	$\pm 10\sim 50$ ppm (± 30 ppm typical)	Please specify
Frequency Stability @ -10~+60°C	$\Delta f/fo$	$\pm 30\sim 50$ ppm (± 30 ppm typical)	Please specify
Temp Operating Range	Topr	-10 ~ +70°C	
Temp Storage Range	Tstg	-40 ~ +85°C	
Equivalent Series Resistance	ESR	200 Ω max	fo 3.579545~3.999MHz
		150 Ω max	fo 4.0~4.999MHz
		120 Ω max	fo 5~5.999MHz
		100 Ω max	fo 6~6.999MHz
		80 Ω max	fo 7~8.999MHz
		60 Ω max	fo 9~10MHz
Shunt Capacitance	C0	5.0pF typical	
Load Capacitance	CL	16.0pF Typical	Others available
Drive Level	DL	1~100 μ W	
Insulation Resistance	IR	500M Ω Min	DC100V \pm 15V
Aging	Fa	± 5 ppm max	@ 25°C ± 3 °C 1st year

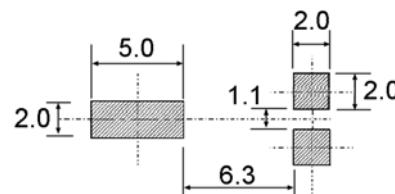
Dimensions (mm)



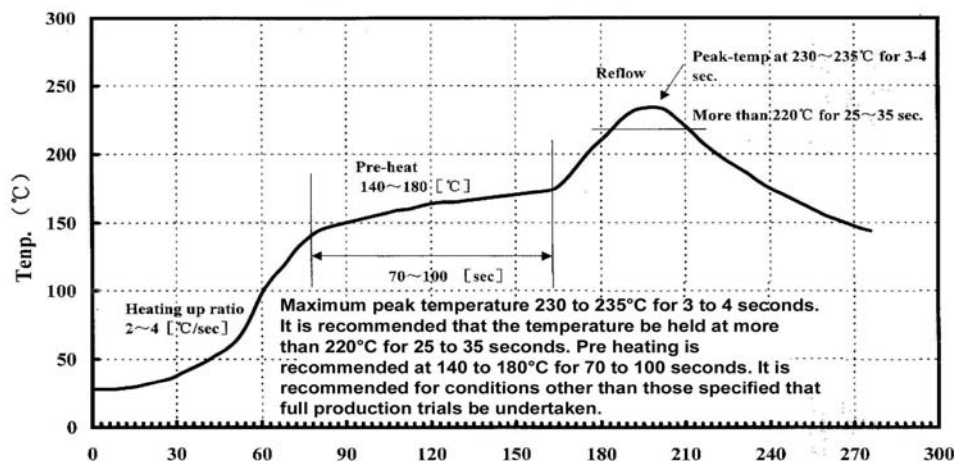
Plating on leads SnCu
 Plating on Can Ni

Suggested footprint

To limit the heat transfer to the crystal element it is recommended that the solder paste for the can connection is limited to 2.0x2.0 anywhere within the 2.0x5.0 footprint area



Recommended reflow profile



Please enquire for tape and reel specifications.

Customer to specify : Frequency, Frequency Tolerance, Frequency Stability, Load Capacitance

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

ISO9001: 2000 Registered

For quotations or further information please contact us at
 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

<http://www.actcrystals.com>

Issue:2 C1b

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