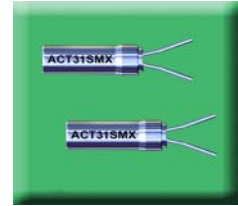


ACT31SMX

Compatible with Eu Directive
2002/EC - RoHS

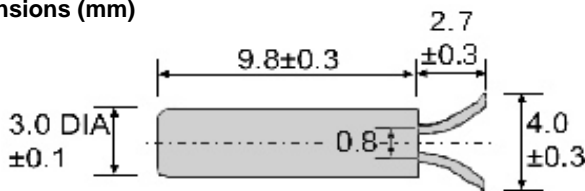


The ACT31SMX is a compact SMD crystal resonator offering high vibration and shock resistance together with high stability. It is very suitable for portable equipment and close packing density. The device is offered with frequencies between 3.579545 and 10.0MHz.

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 |

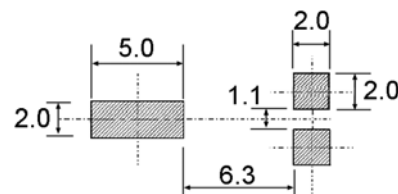
Dimensions (mm)



Plating on leads SnCu
Plating on Can Ni

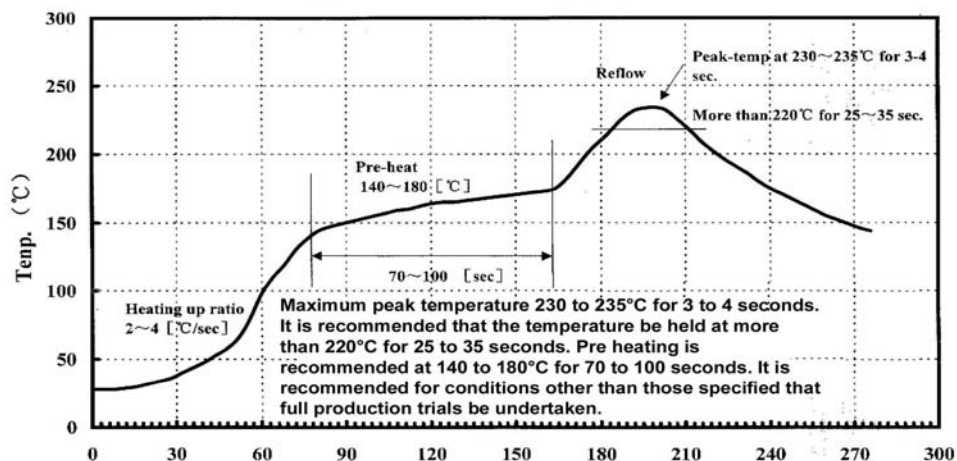
Suggested footprint

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



www.DataSheet4U.com

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

Date :09/05/07