



Tel : 0044 (0)118 979 1238  
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## ACT634SMX-2 Withdrawn no longer available

The ACT634SMX-2 family is a low cost, 2 pad, high quality, low aging 6x3.5mm SMD Crystal in a ceramic base / ceramic lid package, glass sealed for good reliability. The wide frequency range and specification options ensure suitability for many applications.

**APPLICATIONS:** Instrumentation, Audio-visual, Security, PC accessory, Office automation, Micro Clock, Process Control & Consumer.

Compatible with Eu Directive  
 2002/95/EC - RoHS  
 Contains Pb in sealing glass  
 exempted from Article 4(1)  
 of the directive



### Specification

| Parameter                    | Symbol        | Specification                         | Condition                           |
|------------------------------|---------------|---------------------------------------|-------------------------------------|
| Frequency Range              | fo            | 10.0 ~ 100.0MHz                       | Please specify                      |
| Frequency Tolerance (@25°C)  | $\Delta f/fo$ | $\pm 20, \pm 30$ & $\pm 50$ ppm(Std ) | Please specify                      |
| Stability over temp range    | Tc            | $\pm 20$ ppm ~ 50ppm (See table 2)    | Please specify                      |
| Temp Operating Range         | Topr          | 0~+50°C ~ -20~+70°C ( See table 2)    | Please specify                      |
| Temp Storage Range           | Tstg          | -40 ~+85°C                            |                                     |
| Equivalent Series Resistance | ESR           | See table 1                           |                                     |
| Load Capacitance             | CL            | 16pF ~ 50pF & Series                  | (16,20 & 30pF Std )                 |
| Shunt Capacitance            | C0            | 5pF max                               |                                     |
| Drive Level                  | DL            | 100 $\mu$ W typical (500 $\mu$ W max) | (Custom available - Please enquire) |
| Insulation Resistance        | IR            | 500M $\Omega$ min                     | @100V DC                            |
| Aging                        | Fa            | $\pm 5$ ppm p/yea*                    | (First year max @ 25°C)             |

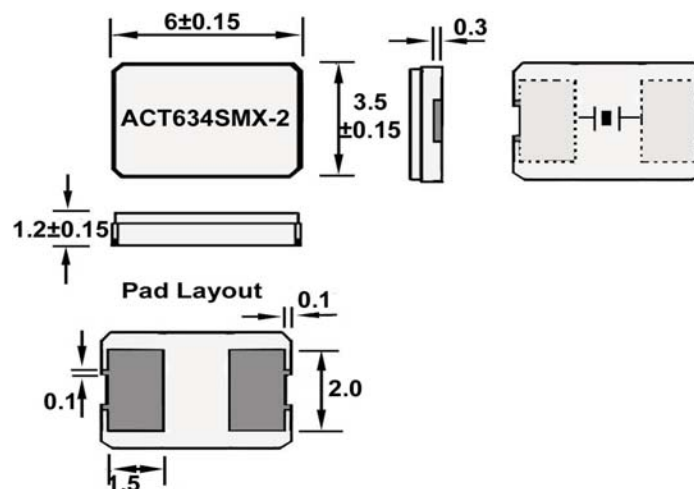
\* A  $\pm 3$ ppm aging p/year part is available as a "semi-custom" device - Please enquire

Table 1

| Freq. Range (MHz) | ESR ( $\Omega$ ) max | Mode / Cut                    |
|-------------------|----------------------|-------------------------------|
| 10.000 ~ 11.999   | 80                   | Fundamental / AT              |
| 12.000 ~ 14.999   | 50                   | Fundamental / AT              |
| 15.000 ~ 49.090   | 40                   | Fundamental / AT              |
| 45.000 ~ 79.999   | 90                   | 3 <sup>RD</sup> Overtone / AT |
| 80.000 ~ 100.000  | 90                   | 3 <sup>RD</sup> Overtone / AT |

Pad Surface Material: Gold (Au)

### Dimensions (mm)



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

Customer to specify : Frequency, Frequency Tolerance, Temperature Stability, Operating Temperature & 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

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>

Issue 2 C1F  
Date 02/05/06



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## ACT634SMX-2

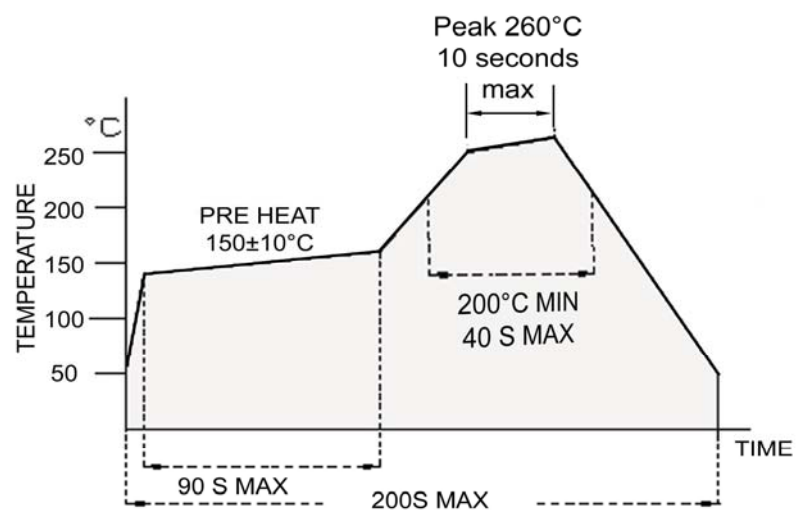
Table 2

| Stability<br>Temp | +/- 5ppm | +/- 10ppm | +/- 20ppm | +/- 30ppm | +/- 50ppm |
|-------------------|----------|-----------|-----------|-----------|-----------|
| 0~+50°C           |          |           | +         | +         | +         |
| -10~+60°C         |          |           | +         | +         | +         |
| -20~+70°C         |          |           | +         | +         | +         |
| -30~+80°C         |          |           |           |           |           |
| -40~+85°C         |          |           |           |           |           |



Standard stabilities

## Standard Re-flow Profile



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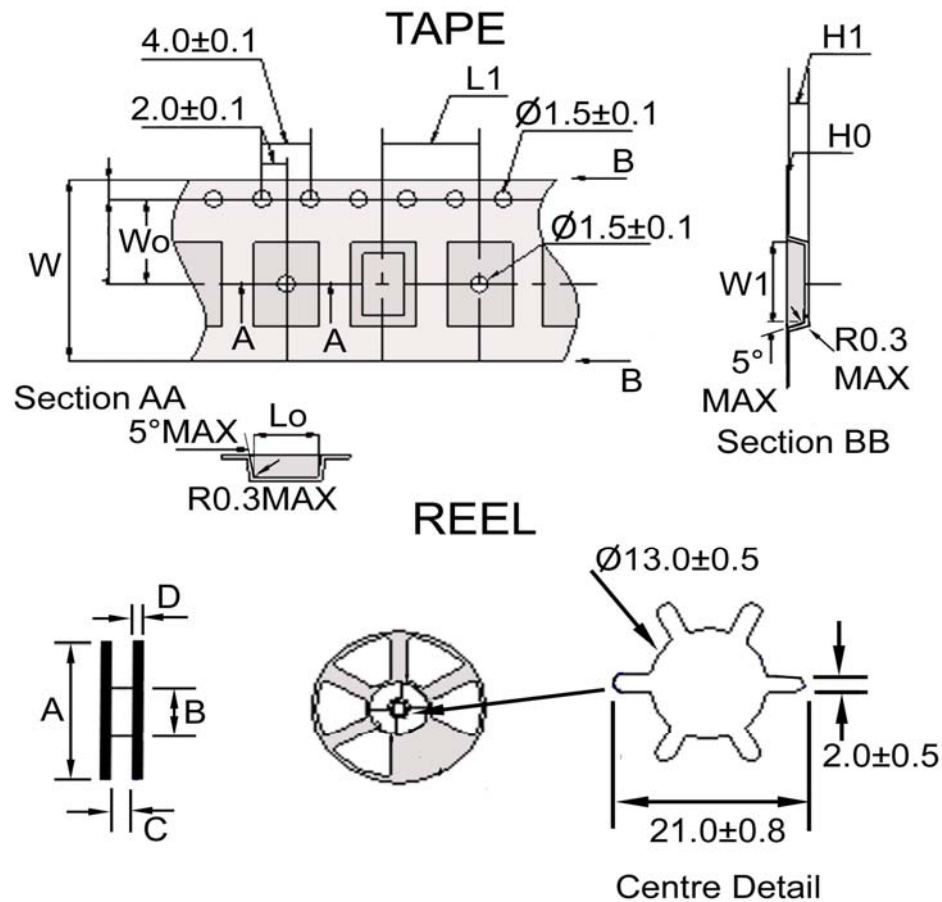


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## ACT634SMX-2

### TAPE & REEL SPECIFICATION

(1K pcs each reel)



| Tolerance<br>Dimension | TAPE |       |      |      |      |       |      | REEL |    |      |      |
|------------------------|------|-------|------|------|------|-------|------|------|----|------|------|
|                        | W    | Wo    | W1   | Lo   | L1   | Ho    | H1   | A    | B  | C    | D    |
|                        | ±0.3 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±2   | ±1 | ±0.5 | ±0.2 |
|                        | 12.0 | 5.5   | 6.5  | 4.0  | 8.0  | 0.3   | 1.7  | 180  | 80 | 13.5 | 2.0  |

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