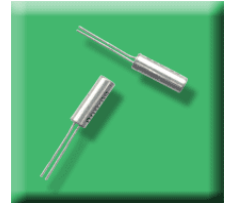


ACT26

Compatible with Eu Directive
2002/EC - RoHS

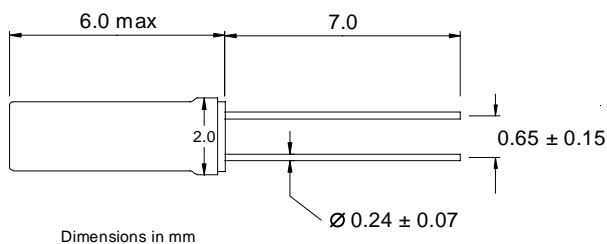
The ACT26 is a miniature cylindrical package offering high vibration and shock resistance together with high stability. It is most suitable for portable equipment and close packing density. The series offers a wide, low frequency range and is popular for use in Microprocessor, Consumer and Instrumentation applications



Specification

| Parameter | Symbol | Specification | Condition |
|------------------------------|---------------|---|---|
| Frequency Range | fo | 25.00 ~ 200KHz | |
| Frequency Tolerance @25°C | $\Delta f/fo$ | $\pm 10\text{ppm} \sim 100\text{ppm}$ | 150KHz ~ 200KHz, supplied as $\pm 100\text{ppm}$ only |
| Turnover Temperature | Tm | 25°C $\pm 5^\circ\text{C}$ | |
| Freq. Temp. coefficient | β | -0.034 \pm 0.006ppm / °C ² max | |
| Temp Operating Range | Topr | -10 ~ +60°C | |
| Temp Storage Range | Tstg | -20 ~ +70°C | |
| Equivalent Series Resistance | ESR | See Table | @ 25°C |
| Shunt Capacitance | C0 | 1.8pF typical | |
| Load Capacitance | CL | 12.5pF (Others available.) | Please specify |
| Motional Capacitance | C1 | 3.0fF | (Typical) |
| Drive Level | DL | 1.0 μ W max | |
| Capacitance Ratio | γ | 450 typical | |
| Q Factor | Qf | 60,000 typical | |
| Insulation Resistance | IR | 500M Ω Min | |
| Aging | Fa | $\pm 5\text{ppm}$ | @ 25°C $\pm 3^\circ\text{C}$ |

| Frequency KHz | ESR K Ω max |
|------------------|-----------------------|
| 25.00 ~ 30.00 | 50 |
| 30.00 ~ 32.00 | 40 |
| 32.00 ~ 40.00 | 35 |
| 40.00 ~ 80.00 | 30 |
| 80.00 ~ 150.00 | 25 |
| 150.00 ~ 200.00 | 40 |



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

Customer to Specify : Frequency, Frequency Tolerance, Operating Temperature Range & 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 : 3C1

Date : 03/08/04



Tel : 0044 (0)118 979 1238
Fax : 0044 (0)118 979 1283
email : info@actcrystals.com

SOLDERING of CYLINDER CRYSTALS

Lead wire should be soldered within 10seconds with the iron having a tip temperature of less than 270°C.

With regard to wave soldering it is recommended that the process is carried out with the crystal unit set upright on the circuit board. Should the process be carried out with the crystal unit on its side then steps must be taken to prevent heat transfer through the can.

Should the whole crystal unit be heated (in a re-flow oven for example) it will result in a marked deterioration of the performance or even failure to oscillate. This is due to the internal construction of the crystal unit which involves the use of solder.

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>