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

## ACT200B and ACT200C

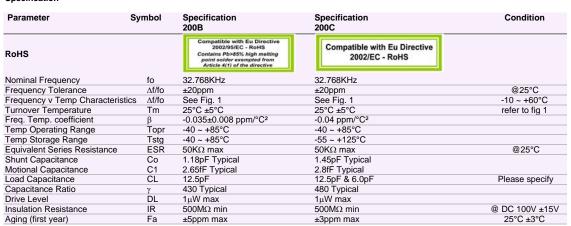
The ACT200B and ACT200C are miniature SMD Watch Crystals with excellent low power consumption, making it ideal for portable applications. Its small footprint makes it suitable for high density circuit boards and applications where PCB space is limited. The tape and reel packaging means that it is ideal for automatic placement machines (loose product is also available).

The heart of the device is a heat resistant precision tuning fork, cylinder type, crystal which provides for good stability characteristics,

The heart of the device is a hear resistant precision tuning fork, cylinder type, crystal which provides for good stability characteristics, sufficient to allow reflow soldering. Both parts are RoHS compatiblethe ACT200C being Lead free and the 200B having high melting point tin lead solder exempted by the directive.

Applications include: Clock, Sub Clock, Small Communications Devices, Microcomputer etc.

### Specification



#### Dimensions (mm)

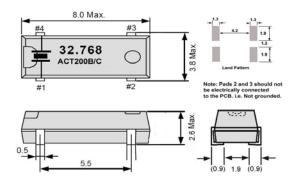
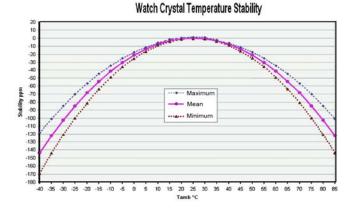


Fig 1.



Please note that all parameters can not necessarily be specified in the same device Customer to specify: Load Capacitance / ACT200B or ACT200C

Customer to specify: Load Capacitance / ACTZ00B or ACTZ00C

In line with our ongoing policy of product evolvement and improvement, the above specification may be subject to change without notice ISO9001:2000 Registered

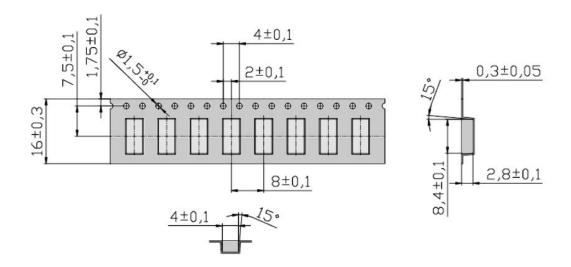
For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK http://www.actcrystals.com



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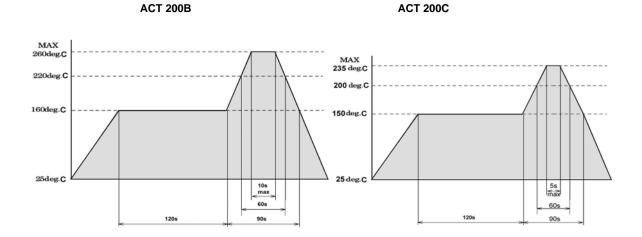
## ACT200B / ACT200C

Tape and Reel specification Standard reel quantity 3000 pieces per reel Reel Diameted 330±0.5mm



## **SOLDERING of SMD WATCH CRYSTALS**

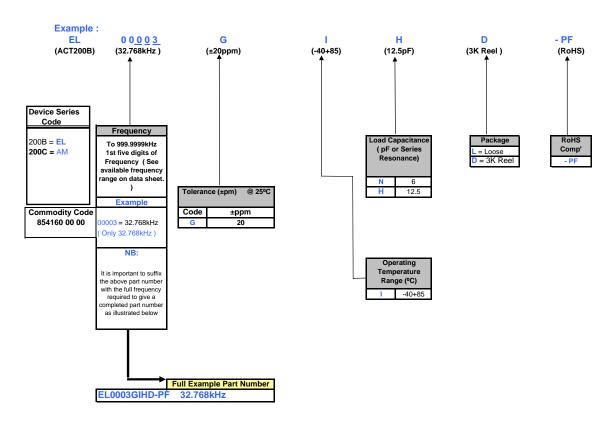
Reflow oven should be set up to emulate or better the maximum reflow profile shown in the diagrams below. Note: The times given as well as the temperatures are equally important to avoid excessive changes of the crystals characteristics. It is advised that trials with any new reflow profile are carried out to determine the suitability of that profile.





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## ACT 200B/200C WATCH CRYSTALS (32.768kHz) - PART NUMBERING & COMMODITY CODE



# NOTES:

- 1) Other Tolerances, CL's and other Operating Temperature Ranges may be available.
- 2) ACT are always happy to consider truly custom specification parts which may require non-standard specification parameters, specific testing, customer requested AQL requirements, non standard packaging or taping and reeling and custom marking. ( MOQ DEPENDENT) Such devices would normally be allocated a custom specification ( An ACT200A device may have a part number such as EK00003C- C1101-PF)
- 3) Stability Over Operating Temperature (°C) please refer to the data.