



ASAK series

Ultra-Miniature 32.768kHz μ A Oscillator

Abracon has introduced its new, ultra-miniature, 32.768kHz crystal oscillator – ASAK series.

This solution is available in a 2.0 x 1.6 x 0.70mm hermetically sealed package, making it ideal for space constrained designs. The device has a low current consumption of 120 μ A typical, into a 15pF load. The output disable function transits the device into power saving mode, which helps extend the battery life. Optimized for the wearable, portable and battery operated consumer solutions, these devices provide better frequency accuracy over temperature when compared to tuning fork crystal based timing, while eliminating the oscillator loop capacitors which, in turn, saves significant surface area.

Features:

- 32.768kHz in Industry standard package size of 2.0 x 1.6 x 0.75mm.
- Seam sealed package assures high reliability performance
- Supply voltage options: 3.3V, 2.5V, and 1.8V.
- Low current consumption: 240 μ A maximum
- Standard LVCMOS Output
- Available with a variety of operating temperature range options up to -40°C to +85°C
- Frequency stability options: \pm 20ppm, \pm 25ppm, \pm 30ppm, \pm 50ppm and \pm 100ppm
- Suitable for RoHS compliant reflow



Application:

- Laptops
- Digital Cameras
- Wireless LAN
- Bluetooth and Mobile Communication
- LCD
- PDA and MP3 players
- Wearables
- Electricity, Gas and Water metering

ASAK datasheet link: <http://www.abracon.com/Oscillators/ASAK.pdf>