



NEW: SMD Quartz Oscillator with 32.768 KHz

Jauch announces a new Oscillator device:

SMD Quartz Oscillator with 32.768 KHz



The "JO42" is a very small size SMD oscillator which is only offered in a frequency of 32.7680 KHz. It uses a tuning fork crystal internally and is designed for a very low power consumption. The "JO42" may typically be used for battery powered applications to feed real time clock devices (RTC).

Background:

After the introduction of the new "JO42" type, Jauch can offer two oscillator types in a frequency of 32.768KHz.

There are several basic differences between "JO42" and "JO75 low frequency type" which are explained below:

The "JO75" uses an AT cut crystal and is available for temperature stabilities of +/-100ppm down to +/-25ppm and T1 or +/-20ppm (-10/+70°C).

It offers a HCMOS compatible output with "normal" rise & fall times (6nsec. max.) required to drive standard logic.

The "JO42" uses a tuning fork crystal, so the temperature stability curve looks like a tuning fork crystal. It is only available in (-10/+70°C) temperature range. The "JO42" is especially designed for lowest power consumption, and therefore it has an output signal with a "slow" output rise & fall time (70nsec. max.).

Consequently, the customer must decide according to his application which would be the best matching type:

- **"JO42"** for lowest power consumption, stability comparable to tuning fork crystals or
- **"JO75"** for better temperature stability and wider temperature range.

For more information, contact us to : bce@bce.it

Or browse into our website : www.bce.it

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