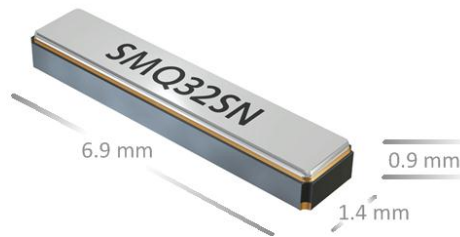


## - Product Announcement -



### **NEW:** SMQ32SN Tuning Fork Crystal in miniature SMD package



### SMD Quartz Crystal with 32.768 kHz

Jauch announces a new Tuning Fork Crystal:

The SMQ32SN is a very small size SMD crystal which is only offered at a frequency of 32.7680 kHz. The seam sealed ceramic metal package contains a highly reliable and heat resistant tuning fork crystal.

A special photolithographic manufacturing process is used in order to reduce the blank size and to improve the electrical parameters.

The SMQ32SN is specially designed for a very low power consumption and for smallest package size. It is optimized for industrial-, telecom-, consumer- and portable electronic applications and is especially adapted for RTC's or ultra-low-power microcontroller applications. The SMQ32SN may typically be used for battery powered applications to feed real time clock devices (RTC). It is ideal for use in battery operated devices where reduced standby energy consumption is critical.

Another advantage is the possibility of EMI shielding by grounding the metal lid in order to reduce the EMI radiation in critical applications.

The SMQ32SN is available for the standard-operating temperature range from  $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ , as well as for the extended operating temperature range of  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$  for industrial applications.

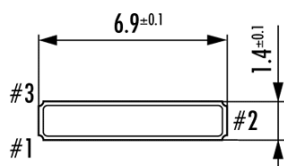
The SMQ32SN complies with the EU RoHS directive and is optimally suitable for fast automatic assembly lines.

#### Key-Features of the SMQ32SN:

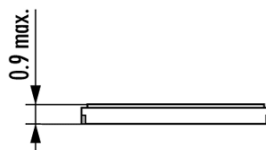
- miniature-package: 6.9mm x 1.4mm x 0.9mm
- high stability  $\pm 20\text{ppm} / \pm 30\text{ppm} (@ 25^{\circ}\text{C})$
- operating temperature range:  $-20^{\circ}\text{C} \sim +70^{\circ}\text{C} / -40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- uses tuning fork crystal, made by a special photolithographic manufacturing process
- Small packaging area and light weight
- suitable for Lead-free soldering process at  $260^{\circ}\text{C}$  max
- 100% lead-free
- RoHS compliant



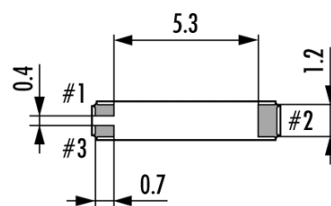
#### Dimensions:



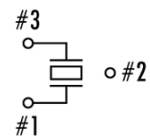
top view



side view



bottom view



#2 connected to metal lid  
crystal connection