SMD crystal offered at a frequency of 32.7680 kHz

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°C ~ +70°C, as well as for the extended operating temperature range of -40°C ~ +85°C for industrial applications.

Key-Features of the SMQ32SN:
■ Miniature-package: 6.9mm x 1.4mm x 0.9mm
■ High stability: ±20ppm / ±30ppm (@ 25°C)
■ Operating temperature range: -20°C ~ +70°C & -40°C ~ +85°C
■ Tuning fork crystal: mfg. by a special photolithographic process
■ Packaging: Small area and Light weight
■ 100% lead free
■ RoHS compliant
Samples are available on request

- Mass production Q1-2013

www.arcoinc.com [1]

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Links:
[1] http://www.arcoinc.com