



actual size

Quartz Crystal · SMQ32SN

SMD Tuning Fork Crystal · 7.0 x 1.5 mm

- 32.768 kHz standard
- reflow soldering temperature: 260 °C max.
- package height 0.9 mm max.



General Data

type	SMQ32SN
frequency	32.768 kHz
frequency tolerance at 25 °C ± 5 °C	±20 ppm / ±30 ppm
load capacitance C_L	12.5 pF, ask for other C_L
temperature constant (T_C)	$T_C = -0.04 \cdot 10^{-6} / ^\circ\text{C}^2$ max. $T_C = -0.034 \cdot 10^{-6} / ^\circ\text{C}^2$ typical
frequency temperature characteristic	f (ppm) = $T_C \cdot (25^\circ\text{C} - T)^2$ T = requested temperature
operating temperature range	-20 °C ~ +70 °C / -40 °C ~ +85 °C
shunt capacitance C_0	0.8 pF typical
series resistance max. (ESR)	65 k Ω
storage temperature	-55 °C ~ +125 °C
drive level max.	1 μW
aging first year	< ± 3 ppm

Frequency Stability vs. Temperature

		- 80 ppm	- 160 ppm
-20 °C ~ +70 °C	STD.	●	
-40 °C ~ +85 °C	T1		●

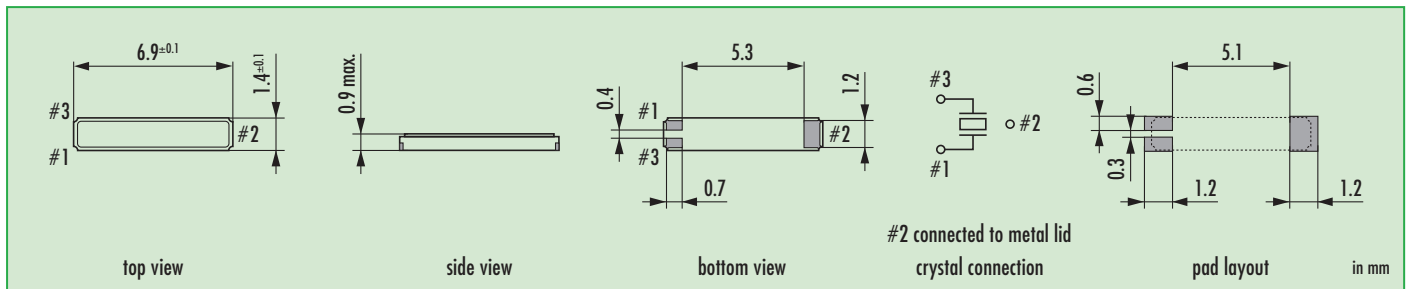
● standard

Marking

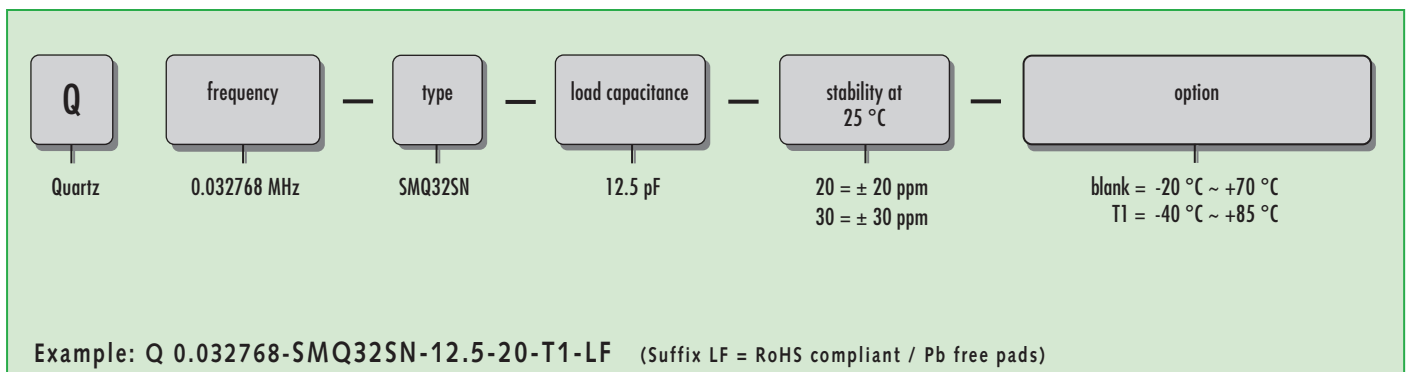
company code / date code (ym) / internal code (optional)

y = year
m = month

Dimensions

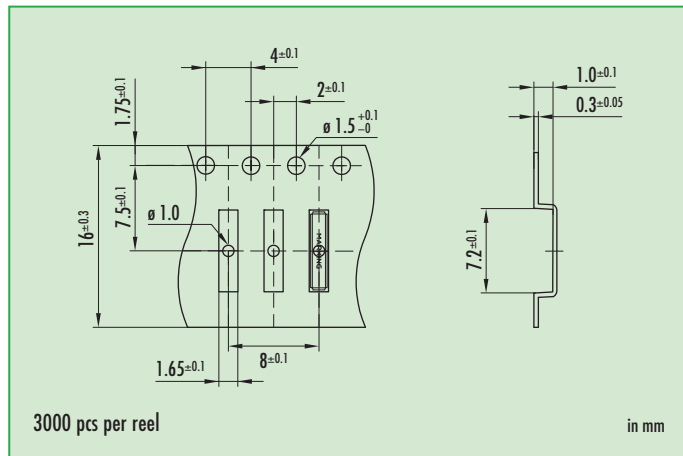


Order Information



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Taping Specification



Reflow Soldering Profile

