



actual size

Quartz Crystal · SMQ32

SMD Tuning Fork Crystal · 13.2 x 4.9 mm

- 32.768 kHz standard
- reflow soldering temperature: 260 °C max.
- package height 4.8 mm max.



General Data

| type | SMQ32 |
|--------------------------------------|--|
| frequency | 32.768 kHz (30.0 ~ 80.0 kHz on request) |
| frequency tolerance at 25 °C ± 5 °C | ± 20 ppm / ± 30 ppm |
| load capacitance C_L | 12.5 pF Std. (6 pF ~ 12.5 pF) |
| temperature constant | -0.04 · 10 ⁻⁶ / °C ² max. -0.034 · 10 ⁻⁶ / °C ² typical |
| frequency temperature characteristic | f (ppm) = -0.04 (25 °C - T) ² T = requested temperature |
| operating temperature range | -20 °C ~ +70 °C / -40 °C ~ +85 °C |
| shunt capacitance C_0 | 2 pF typical |
| series resistance max. (ESR) | 33.0 kΩ |
| storage temperature | -40 °C ~ +90 °C |
| drive level max. | 1 μW |
| aging first year | < ± 5 ppm |

Frequency Stability vs. Temperature

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

Marking

company code / 327 / date code

date code:

A ~ M: Jan. - Dec.

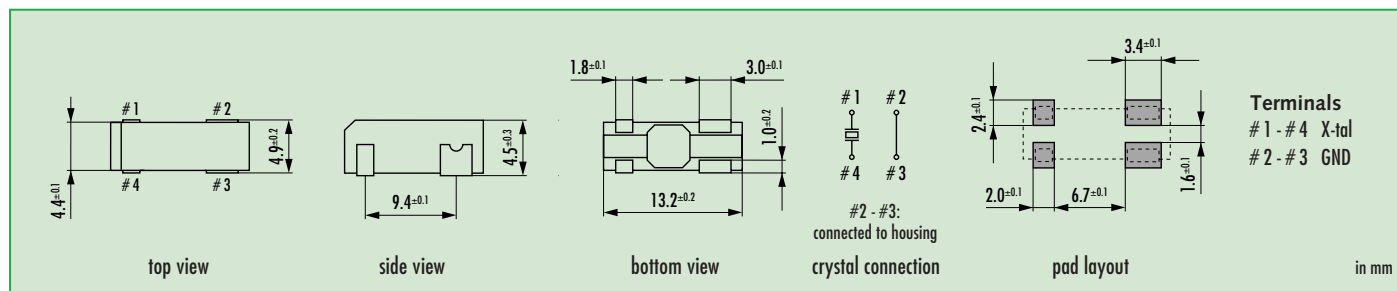
5: 2005

6: 2006

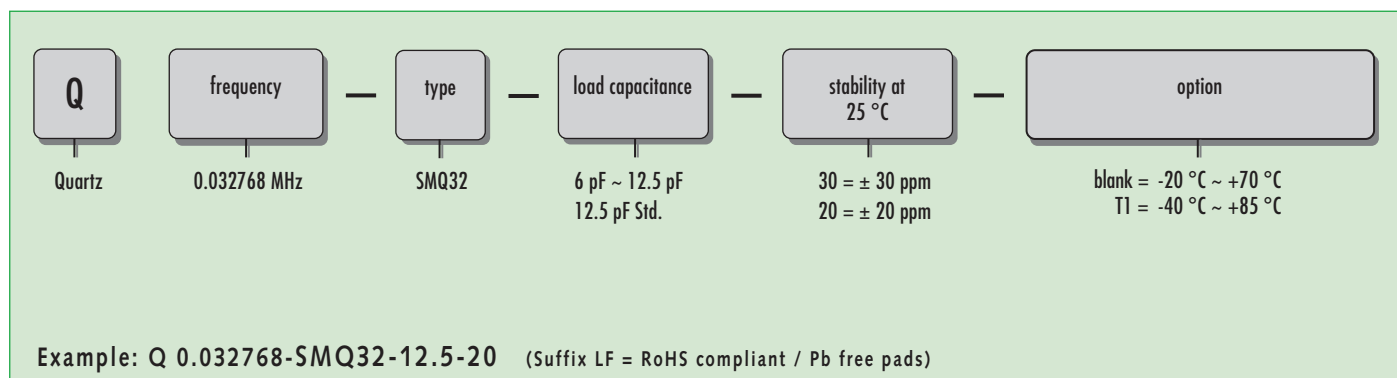
7: 2007

| Jan. | Febr. | Mar. | Apr. | May | June |
|------|-------|-------|------|------|------|
| A | B | C | D | E | F |
| July | Aug. | Sept. | Oct. | Nov. | Dec. |
| G | H | J | K | L | M |

Dimensions

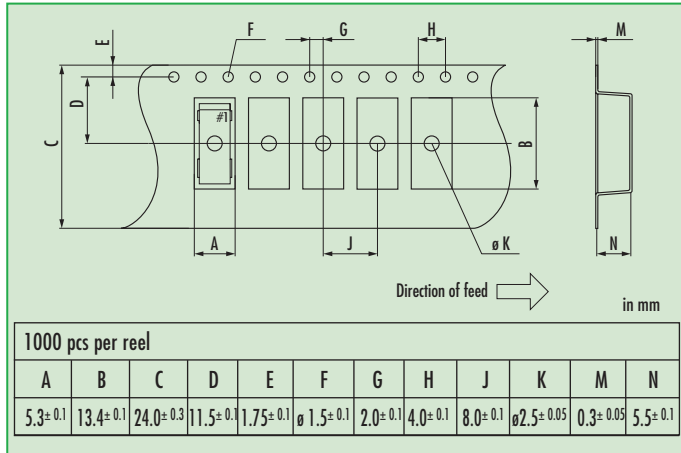


Order Information



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Taping Specification



Reflow Soldering Profile

