



actual size

Quartz Crystal · SMQ32S

SMD Tuning Fork Crystal · 9.0 x 3.4 mm

- 32.768 kHz standard
- reflow soldering temperature: 260 °C max.
- package height 3.0 mm max.



General Data

type	SMQ32S
frequency	32.768 kHz (30.0 ~ 80.0 kHz on request)
frequency tolerance at 25 °C ± 5 °C	± 30 ppm
load capacitance C_L	12.5 pF (6 pF ~ 12.5 pF)
temperature constant	-0.04 · 10 ⁻⁶ / °C ² max. -0.034 · 10 ⁻⁶ / °C ² typical
frequency temperature characteristic	$f \text{ (ppm)} = -0.04 (25 \text{ °C} - T)^2$ T = requested temperature
operating temperature range	-20 °C ~ +70 °C / -40 °C ~ +85 °C
shunt capacitance C_0	1.75 pF typical
series resistance max. (ESR)	50 kΩ
storage temperature	-40 °C ~ +90 °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 / 327 / date code

date code:

A ~ M: Jan.- Dec.

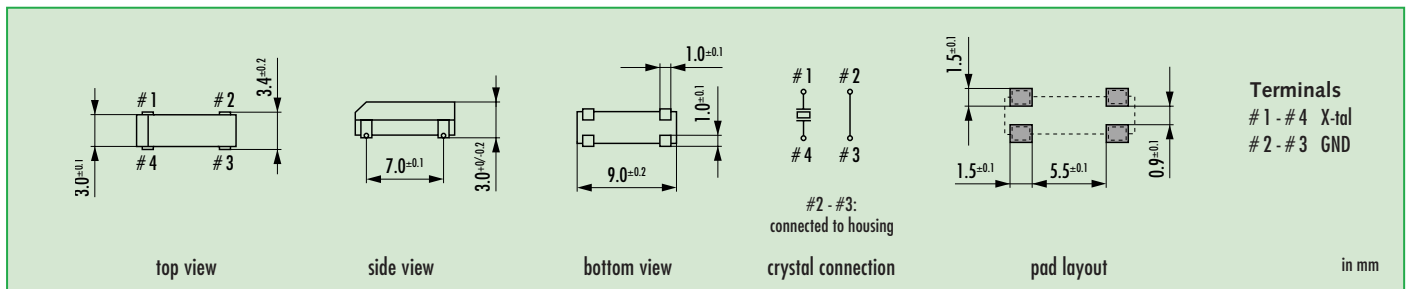
5: 2005

6: 2006

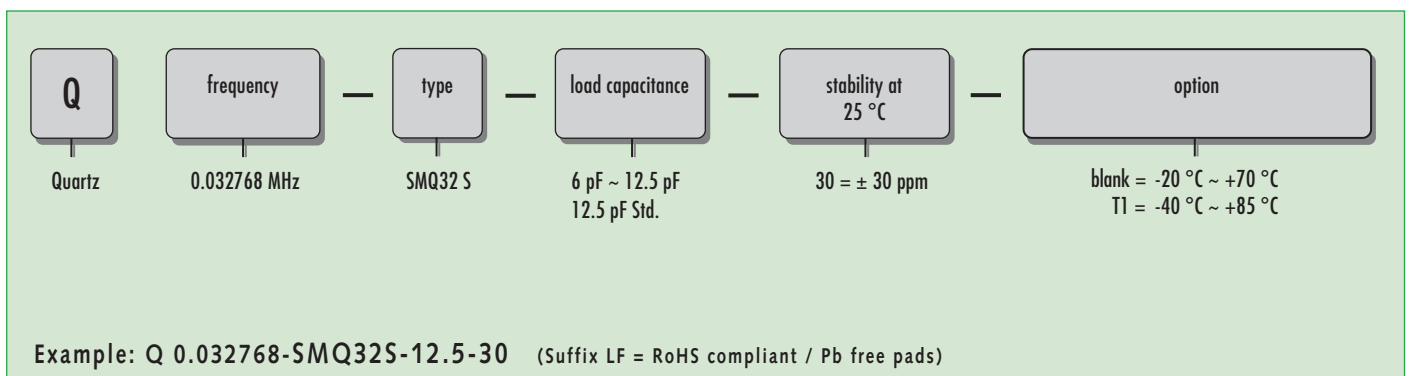
7: 2007

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

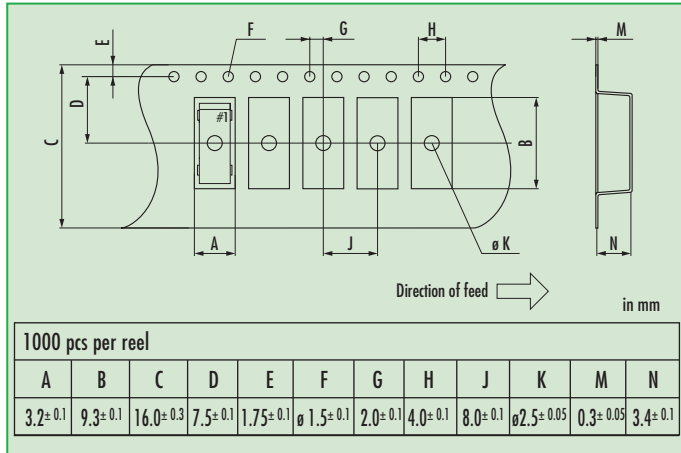


Order Information



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Taping Specification



Reflow Soldering Profile

