



actual size

Quartz Crystal SM26F

- Tuning Fork Crystal • 2.0 x 6.0 mm
- 2 x 6 mm cylinder type
- package height: 2.1 mm max.



RoHS compliant



REACH
compliant



Conflict
mineral free

GENERAL DATA

TYPE	SM26F
frequency	32.768 kHz (30.0 ~ 100.0 kHz on request)
frequency tolerance at 25 °C ± 5 °C	± 20 ppm / ± 30 ppm (± 10 ppm ask if available)
load capacitance C_L	12.5 pF std. (6 pF ~ 12.5 pF on request)
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	$\Delta f = T_C \cdot (T_A - T_{TP})^2$ in [ppm] T_A = actual ambient temperature $T_{TP} = 25^\circ\text{C} \pm 5^\circ\text{C}$ T_{TP} = turning point temperature
operating temperature range	-20 °C ~ +70 °C / -40 °C ~ +85 °C
shunt capacitance C_0	1.2 pF typical
series resistance max. (ESR)	50.0 kΩ (35.0 kΩ ask if available)
storage temperature	-40 °C ~ +90 °C
drive level max.	1 μW
aging first year	< ± 5 ppm

TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE

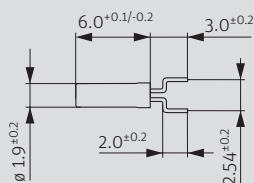
frequency stability		-80 ppm	-160 ppm
-20 °C ~ +70 °C	STD.	•	
-40 °C ~ +85 °C	T1		•

• standard

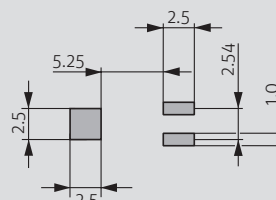
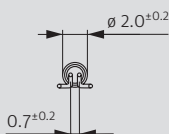
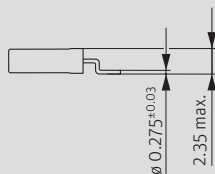
MARKING

company code
frequency code (optional)
date code

DIMENSIONS



(1000 pcs per reel)



pad layout

in mm

ORDER INFORMATION

Q	frequency	type	load capacitance	tolerance at 25 °C	dimensions type	option
Quartz	0.032768 MHz	SM26F	6 pF ~ 12.5 pF 12.5 pF Std.	20 = ± 20 ppm 30 = ± 30 ppm	lead type	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C

Example: Q 0.032768-SM26F-12.5-20-B-T1-LF