

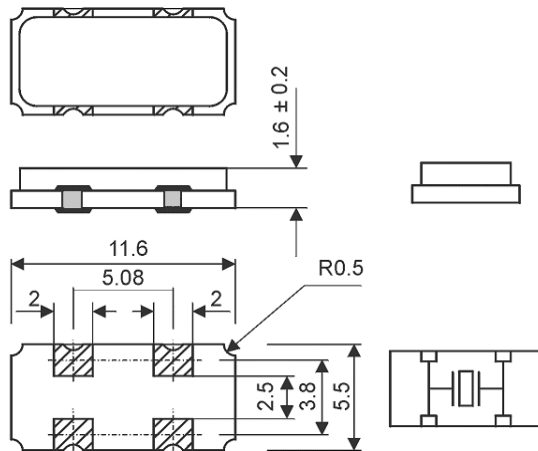


# Quartz Crystal

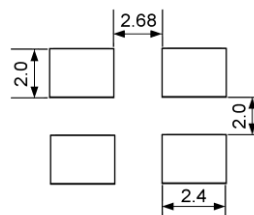
SMD-version

part no.	12.xxxxx
model	KX - 20
frequency range	3.579545 ~ 25.0 MHz
mode	fundamental
operating temperature	standard -20° ~ +70°C available -40° ~ +85°C (= KX-20T); -40° ~ +105°C (= KX-20E)
frequency tolerance at +25°C	±50 ppm
temperature tolerance at -20° ~ +70°C at -40° ~ +85°C at -40° ~ +105°C	±50 ppm ±100 ppm ±120 ppm
load capacitance C <sub>L</sub>	standard 16 pF available 12 ~ 20 pF
series resistance R1 (ESR) max.	fundamental 3.5 ~ 3.9 MHz 150 Ohm 4.0 ~ 5.99 MHz 120 Ohm 6.0 ~ 7.99 MHz 80 Ohm 8.0 ~ 9.99 MHz 60 Ohm 10.0 ~ 25.0 MHz 50 Ohm
aging at +25°C (first year) max.	±5 ppm
shunt capacitance C <sub>0</sub> max.	7.0 pF
drive level max.	0.1 mW
contents of reel	2000 pcs.

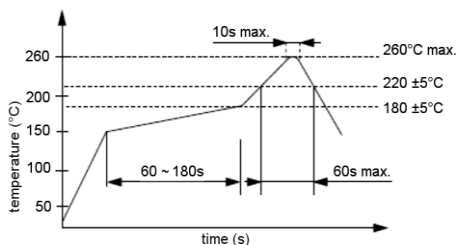
**Dimensions (mm):**



**Suggested soldering pad:**



**Reflow soldering condition:**



**Tape specification:**

