

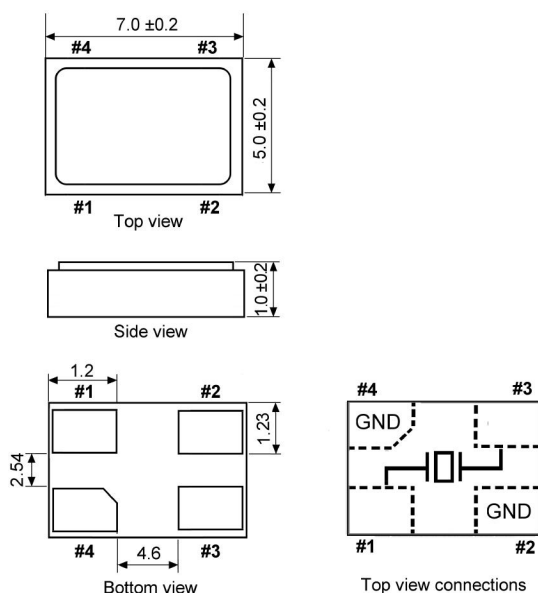


Quartz Crystal

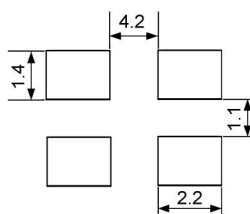
SMD-version

part no.	12.xxxxx	
model	KX - 13	
frequency range	6.0 ~ 160.0 MHz	
mode	fundamental, 3 rd overtone, 5 th overtone	
operating temperature	standard -20° ~ +70°C available -40° ~ + 85°C (= KX-13T); -40° ~ +105°C (= KX-13E); -40° ~ +125°C (= KX-13F)	
frequency tolerance at +25°C	standard ±30 ppm; available ±10 ~ ±50 ppm	
temperature tolerance at -20° ~ + 70°C, -40° ~ + 85°C at -40° ~ +105°C, at -40° ~ +125°C	standard ±30 ppm; available ±10 ~ ±50 ppm standard ±30 ppm; available ±30 ~ ±50 ppm standard ±50 ppm; available ±30 ~ ±80 ppm	
load capacitance C _L	standard 16 pF; available 12 ~ 20 pF	
series resistance R1 (ESR) max.	fundamental	6.0 ~ 7.00 MHz 120 Ohm 7.1 ~ 10.99 MHz 100 Ohm 11.0 ~ 13.99 MHz 50 Ohm 14.0 ~ 15.99 MHz 40 Ohm 16.0 ~ 40.50 MHz 30 Ohm 3 rd overtone 35.0 ~ 39.99 MHz 100 Ohm 40.0 ~ 49.99 MHz 80 Ohm 50.0 ~ 90.00 MHz 50 Ohm 5 th overtone 90.0 ~ 160.00 MHz 100 Ohm
aging at +25°C (first year) max.	±2 ppm	
shunt capacitance C ₀ max.	7.0 pF	
drive level max.	300 µW	
contents of reel	1000 pcs.	

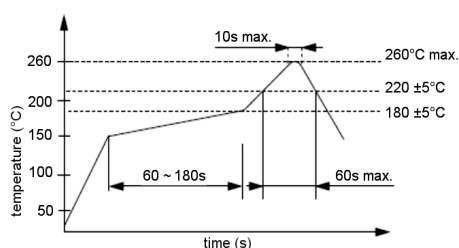
Dimensions (mm):



Suggested soldering pad:



Reflow soldering condition:



Tape specification:

