

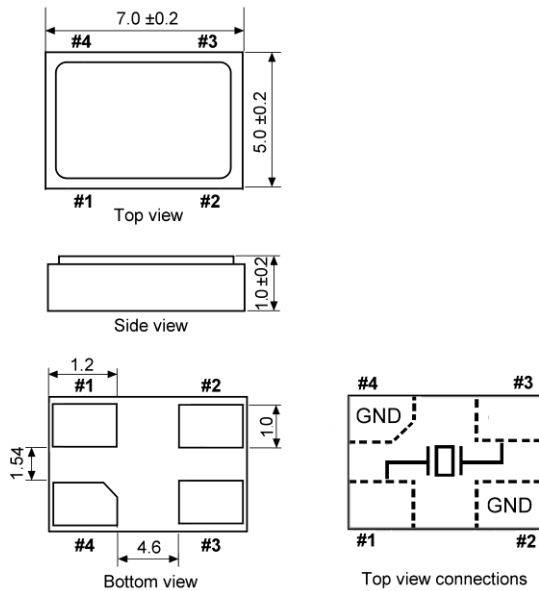


Quartz Crystal

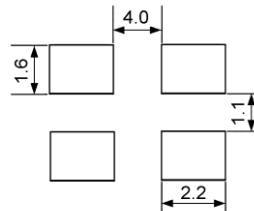
SMD-version

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 R ₁ (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.		

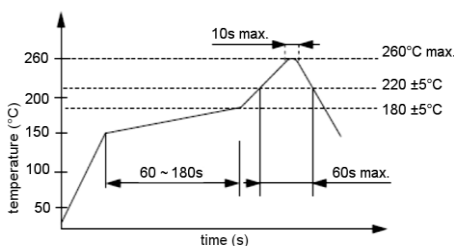
Dimensions (mm):



Suggested soldering pad:



Reflow soldering condition:



Tape specification:

