
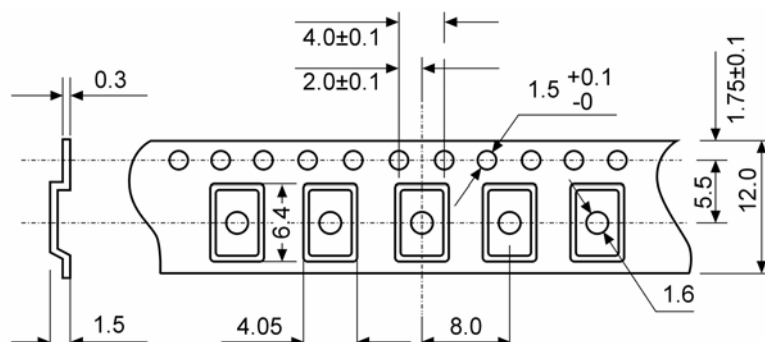
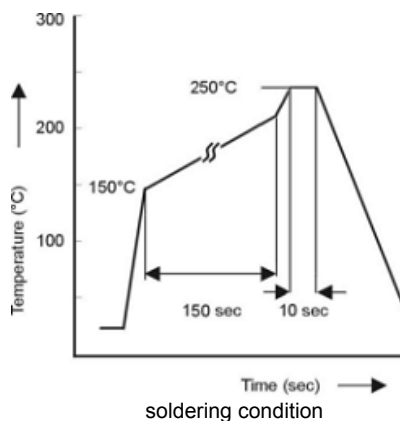
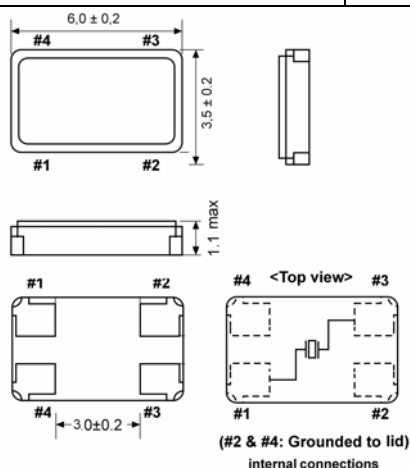


## QUARTZ CRYSTALS

**MHz range**

**SMD-version**

model	KX – 12A	
frequency range	8,0 ~ 150,0 MHz	
mode	fundamental, 3 <sup>rd</sup> overtone	
operating temperature	standard -20° ~ + 70°C available -40° ~ + 85°C (=KX-12AT) available -40° ~ +105°C (=KX-12AE)	
frequency tolerance at +25°C	standard ± 50 ppm available ± 10 ~ ± 50 ppm	
temperature tolerance -20° ~ + 70°C -40° ~ + 85°C -40° ~ +105°C	standard ± 50 ppm, available ±10 ~ ±50 ppm standard ±100 ppm, available ±10 ~ ± 100 ppm standard ±120 ppm, available ±30 ~ ± 120 ppm	
load capacitance C <sub>L</sub>	standard 16 pF available 10 ~ 20 pF	
series resonance R <sub>1</sub> max.	fundamental 8,0 ~ 11,99 MHz 80 Ohm 12,0 ~ 80,0 MHz 50 Ohm 3 <sup>rd</sup> overtone 40,0 ~ 150,0 MHz 100 Ohm	
aging ( first year )	± 2 ppm	
shunt capacitance C <sub>0</sub> max.	5,0 pF	
drive level in mW max.	0,1	
lead-free	since production start	
contens of reel	1000 pcs.	 actual size
order no.	12.87600 ~ 12.87699	



(mm) reel diameter 178 mm