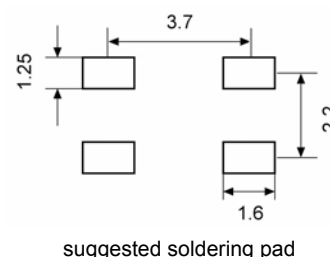
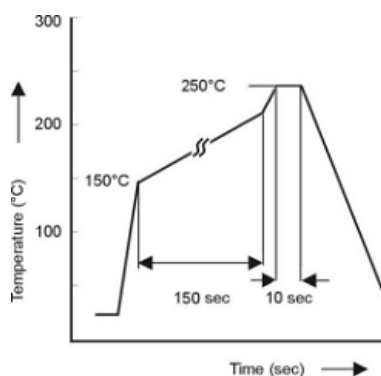
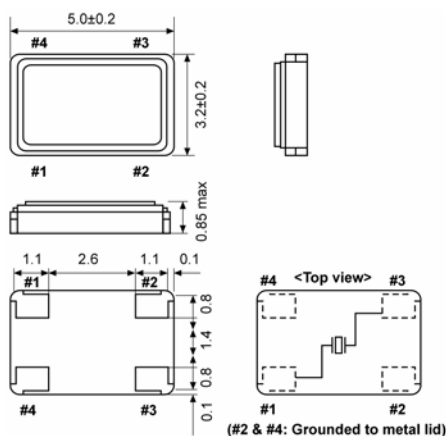


QUARTZ CRYSTALS

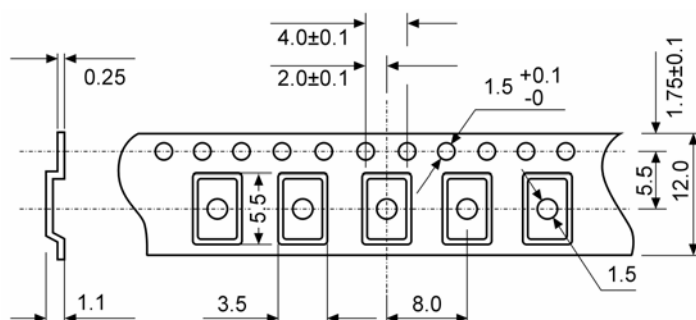
MHz range

SMD-version

model	KX - 9A		
frequency range	8,0 ~ 300,0 MHz		
mode	fundamental, 3 rd overtone, 5 th overtone		
operating temperature	standard -20° ~ + 70° C available -40° ~ + 85° C (=KX-9AT) available -40° ~ +105° C (=KX-9AE)		
frequency tolerance at +25° C	standard ± 30 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 ±20 ~ ± 100 ppm standard ±120 ppm, available ±30 ~ ± 120 ppm		
load capacitance C _L	standard 16 pF available 10 ~ 20 pF		
series resonance R ₁ max.	fundamental	8,0 ~ 12,0 MHz	100 Ohm
		12,1 ~ 16,0 MHz	80 Ohm
		16,1 ~ 20,0 MHz	60 Ohm
		20,1 ~ 50,0 MHz	40 Ohm
		50,1 ~ 130,0 MHz	30 Ohm
	3 rd overtone	70,0 ~ 300,0 MHz	80 Ohm
	5 th overtone	120,0 ~ 250,0 MHz	80 Ohm
aging (first year)	± 2 ppm		
shunt capacitance C ₀ max.	5,0 pF		
drive level in mW max.	0,1		
contents of reel	1000 pcs.		
lead-free	since production start		
order no.	12.89000 ~ 12.89199		



soldering condition



(mm)

reel diameter 178 mm