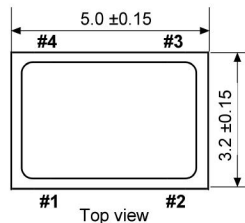


## Quartz Crystal

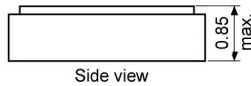
SMD-version

part no.	12.89102
model	KX – 9A
frequency	48.0 MHz
mode	fundamental
operating temperature	-20° ~ +70°C
frequency tolerance at +25°C	±30 ppm
temperature tolerance -20° ~ +70°C	±50 ppm
load capacitance $C_L$	18 pF
series resistance R1 (ESR) max.	40 Ohm
aging at +25°C (first year) max.	±2 ppm
shunt capacitance $C_0$ max.	5.0 pF
drive level max.	300 µW
contents of reel	1000 pcs.

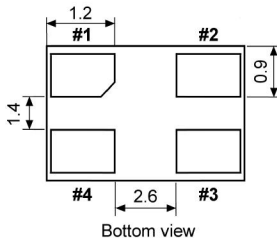
### Dimensions:



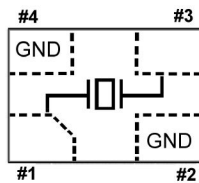
Top view



Side view



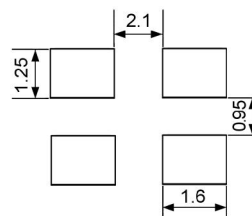
Bottom view



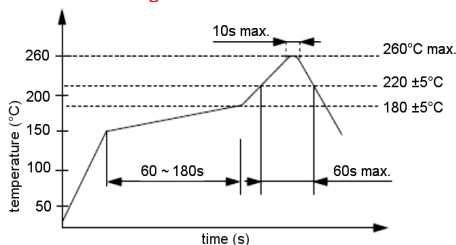
Top view connections

(#2 & #4: connected to metal lid)

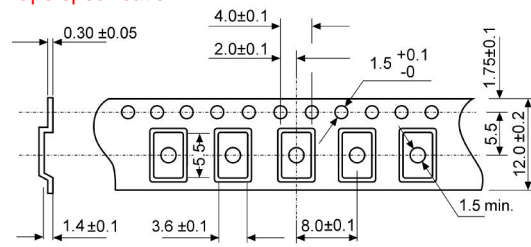
### Suggested soldering pad:



### Reflow soldering condition:



### Tape specification:



reel diameter 178 mm