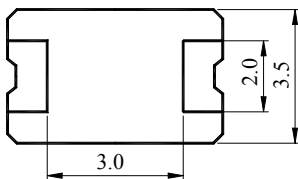
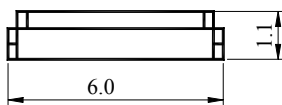


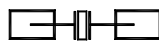
STANDARD SPECIFICATIONS						
Frequency Range	Fundamental	8.0MHz to 40.0 MHz				
	3rd OT	40.0 MHz to 100 MHz				
Frequency Tolerance (25 °C)	±50 ppm Standard (see Crystal Part Number Guide for more details)					
Resonance	Parallel (18pF Standard) (see Crystal Part Number Guide for more details)					
Shunt Capacitance (Co)	7.0pF max					
Equivalent Series Resistance (E.S.R)	60 Ω max					
Drive Level	10μW ~ 100μW					
Aging (First Year @ 25°C)	±5 ppm max					
Frequency Stability over Operating Temperature	± 100 ppm Standard (see Crystal Part Number Guide for more details)					
Operating Temperature Range	0 °C ~+70 °C Standard (see Crystal Part Number Guide for more details)					
Storage Temperature Range	-40 °C ~+85 °C Standard					
Ordering Instructions (see Crystal Part Number Guide for more details)						
Example: QVS Part # = QCM50-21AF18-25.000						
QCM50-	±50ppm(@ 25°)	±100ppm(Over Temp)	0°C~+70°C	Fundamental	Load Cap.	Freq.
	2	1	A	F	18pF	-25.000MHz

* See Engineering-Technical Info for Solder Re-flow and Tape and Reel Specs.

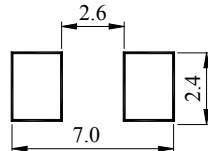
DIMENSIONS (Unit:mm)



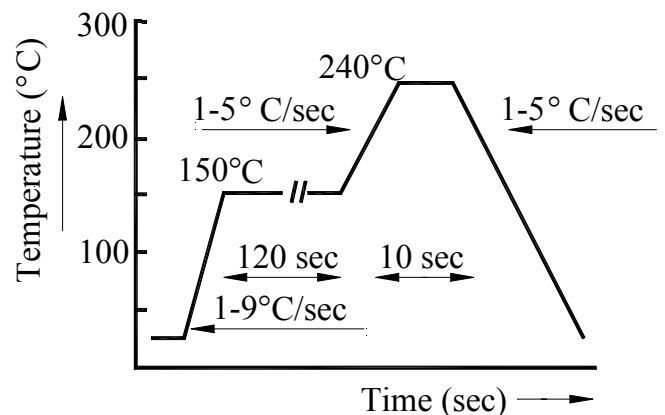
Connection (Top view)



RECOMMENDED PAD LAYOUT



Example for soldering conditions



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