

STANDARD SPECIFICATIONS

Frequency Range	10 MHz to 100 MHz
Vibration Mode	Fundamental, up to 66MHz
Frequency Tolerance (25°C)	± 50 ppm Standard (see Crystal Part Number Guide for more details)
Load Capacitance (CL)	18pF Standard (see Crystal Part Number Guide for more details)
Equivalent Series Resistance (E.S.R.)	See Table
Aging (First Year @ 25°C)	±5 ppm/year max
Frequency Stability over Operating Temperature	± 100 ppm Standard (see Crystal Part Number Guide for more details)
Drive Level	100µW max.
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 # = QCM20-21AF18-20.000

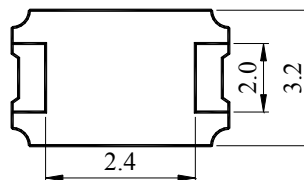
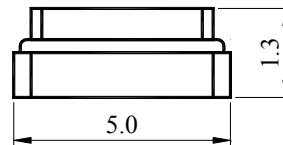
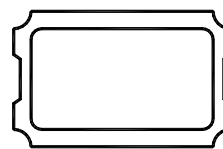
QCM20 -	±50ppm(@ 25°)	±100ppm(Over Temp)	0°C~+70°C	Fundamental	Load Cap.	Freq.
	2	1	A	F	18pF	-20.000MHz

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

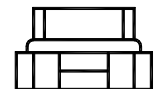
Equivalent Series Resistance (E.S.R.)

Frequency Range (MHz)	Max ESR (Ω)
10.0 to 13.99	100
14.0 to 19.99	80
20.0 to 39.99	60
40.0 to 66.0	40
30.0 to 100.0 (3rd OT)	100

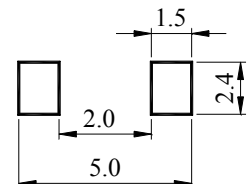
DIMENSIONS (Unit:mm)



Connection (Top view)



PAD LAYOUT



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Specifications subject to change without notice (Rev B)