

STANDARD SPECIFICATIONS		EQUIVALENT SERIES RESISTANCE (E.S.R.)		
Frequency Range	7.000-160.000MHz	Frequency (MHz)	Vibration mode	Ω ohms
Crystal Cut	AT ( Standard ) or BT			
Mode of Vibration	Fundamental, 3 <sup>rd</sup> OT, 5 <sup>th</sup> OT	7.0 ~ 9.9	Fundamental	100
Frequency Tolerance(25 °C)	± 30ppm (Standard)	10.0 ~ 14.9	Fundamental	60
Load Capacitance (CL)	18pF (Standard)	15.0 ~ 30.0	Fundamental	30
Shunt Capacitance(C <sub>0</sub> )	7 pF max (Standard)	25.0 ~ 29.9	3rd OT	70
Insulation Resistance	500MΩ min / DC 100V	30.0 ~ 49.9	3rd OT	60
Frequency Stability	± 50ppm (Standard)	50.0 ~ 100.0	3rd OT	50
Aging	±5ppm / year max	75.0 ~ 160.0	5th OT	80
Drive Level (μW)	30nW-1mW			
Operating Temp. Range	0°C to +70°C (Standard)			
Storage Temperature Range	-40 °C ~+85 °C Standard			

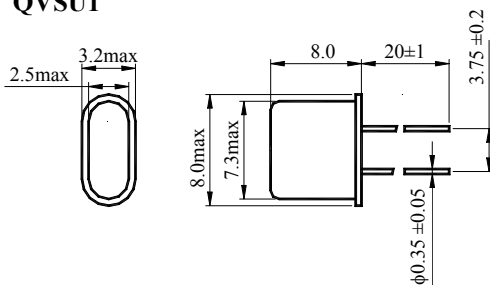
### Ordering Instructions (see Crystal Part Number Guide for more details)

Example: QVS Part # = QVSU1-52AFI18-20.000

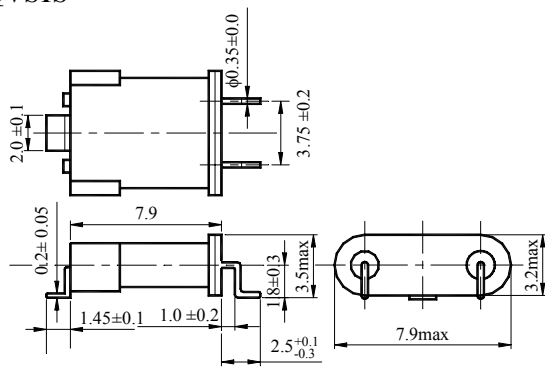
QVSU1-	±30ppm(@ 25°)	±50ppm(Over Temp)	0°C~+70°C	Fundamental	Insulator Tab	Load Cap.	Freq.-
5	5	2	A	F	I	18pF	-20.000MHz

### DIMENSIONS(Unit:mm)

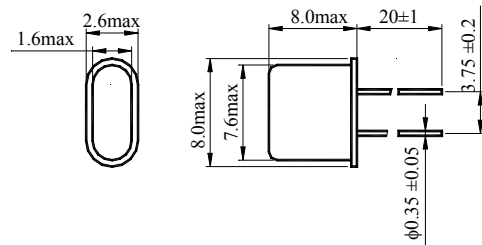
#### QVSU1



#### QVS1S



#### QVS1NS



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