

# QVS49U/QVS49T Series

## Thru-Hole Crystal, AT-cut or BT-cut

STANDARD SPECIFICATIONS	
Frequency Range	1.400MHz-250.000MHz
Frequency Tolerance @ 25 °C	± 30 ppm Standard (see Crystal Part Number Guide for more details)
Crystal Cut	AT (Standard) or BT
Resonance	Parallel (18pF Standard) (see Crystal Part Number Guide for more details)
Shunt Capacitance (C <sub>0</sub> )	7 pF max
Frequency Stability over Operating Temperature	± 50 ppm Standard (see Crystal Part Number Guide for more details)
Equivalent Series Resistance	See Table
Drive Level	1 mW max
Aging	± 5 ppm max/ year
Operating Temperature Range	0 °C ~ +70 °C Standard (see Crystal Part Number Guide for more details)
Storage Temperature Range	-40 °C ~ +85 °C Standard
Package	QVS49U / QVS49T

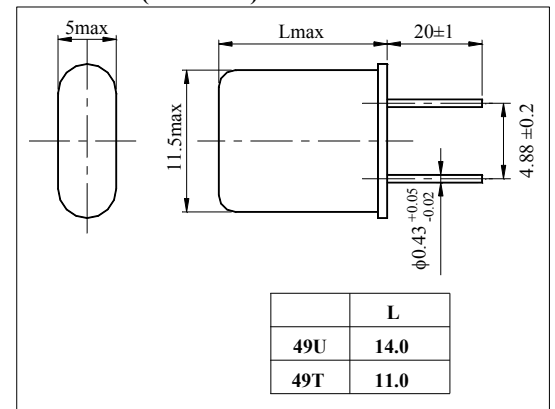
### Ordering Instructions (see Crystal Part Number Guide for more details)

Example: QVS Part # = QVS49U-52AFI18-20.000

	±30ppm(@ 25°)	±50ppm(Over Temp)	0°C~+70°C	Fundamental	Insulator Tab	Load Cap.	Freq.
QVS49U-	5	2	A	F	I	18pF	-20.000MHz

Maximum Standard Equivalent Series Resistance in (Ω)			
Frequency Range (MHz)	ESR(Ω)	Frequency Range (MHz)	ESR(Ω)
Fundamental wave		9.000~9.999	30
1.800~1.999	800	10.000~12.999	25
2.000~2.499	500	13.000~19.999	25
2.500~2.999	300	20.000~35.000	25
3.000~3.299	200	3rd overtone	
3.300~3.499	150	20.000~24.999	50
3.500~3.999	120	25.000~28.635	40
4.000~4.499	100	28.636~44.999	40
4.500~4.999	80	45.000~69.999	40
5.000~5.999	70	70.000~90.000	40
6.000~6.999	50	5th overtone	
7.000~7.999	40	50.000~69.999	60
8.000~8.999	30	70.000~160.000	100

Dimensions (Unit=mm)



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Specifications subject to change without notice (Rev B)