

# QVSU4/QVSU4S Series

## Thru-Hole/SMD Crystals

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	7.0 ~ 9.9	Fundamental	100
Mode of Vibration	Fundamental, 3rd OT, 5th OT	10.0 ~ 14.9	Fundamental	60
Frequency Tolerance (25 °C)	±30ppm (Standard)	15.0 ~ 30.0	Fundamental	50
Load Capacitance (CL)	18pF (Standard)	25.0 ~ 29.9	3rd OT	80
Shunt Capacitance(C <sub>0</sub> )	7 pF max (Standard)	30.0 ~ 49.9	3rd OT	60
Insulation Resistance	500MΩ min / DC 100V	50.0 ~ 100.0	3rd OT	60
Frequency Stability	±50ppm (Standard)	75.0 ~ 160.0	5th OT	90
Aging	±5ppm / year max			
Drive Level (μW)	30nW-1mW			
Operating Temp. Range	0°C to +70°C (Standard)			

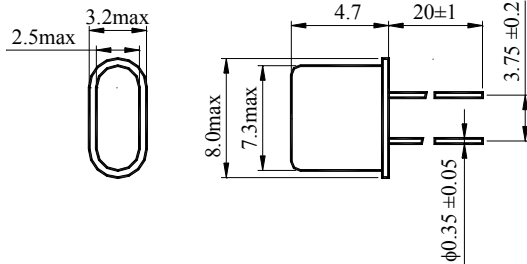
### Ordering Instructions (see Crystal Part Number Guide for more details)

**Example: QVS Part # =QVSU4-52AFI18-20.000**

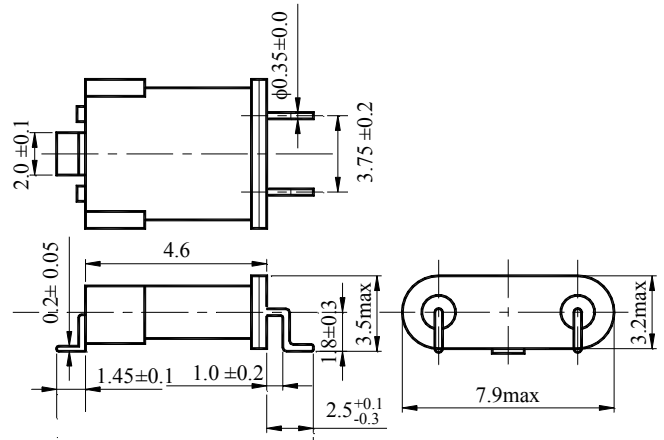
QVSU4-	±30ppm(@ 25°)	±50ppm(Over Temp)	0°C~+70°C	Fundamental	Insulator Tab	Load Cap.	Freq.
	5	2	A	F	I	18pF	-20.000MHz

### DIMENSIONS(Unit:mm)

#### QVSU4



#### QVSU4S



### QVS TECH INC

6965 El Camino Real, Ste 105 Carlsbad, CA 92009 Phone: 760-929-8677 Fax: 760-929-8077 email: [sales@qvstech.com](mailto:sales@qvstech.com)

Specifications subject to change without notice (Rev A)