QVS49S/QVS49S2/QVS49S3 Series

Thru Hole Crystal, AT-cut or BT-cut

RoHS Compliant

STANDARD SPECIFICATIONS	
Frequency Range	3.2 MHz -100.0 MHz
Frequency Tolerance (@ 25 °C)	± 50 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 (Co)	7 pF max
Equivalent Series Resistance (Ω)	See Table
Frequency Stability over Operating Temperature	± 100 ppm Standard (see Crystal Part Number Guide for more details)
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

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

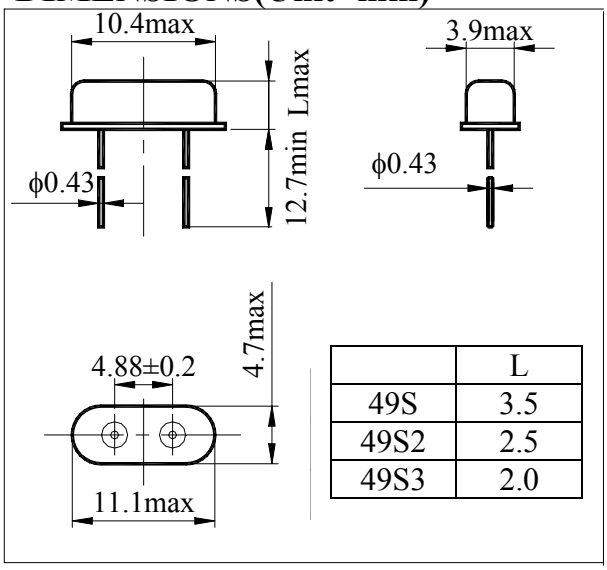
Example: QVS Part # = QVS49S-21AFI18-20.000

	±50ppm (@ 25°C)	±100ppm (Over Temp)	0°C~+70°C	Fundamental	Insulator Tab	Load Cap.	Freq.
QVS49S	2	1	A	F	I	18pF	-20.000MHz

Maximum Standard Equivalent Series Resistance (Ω)

Frequency Range (MHz)	ESR (Ω)
Fundamental Mode	
3.200 ~ 3.500	300
3.501 ~ 4.000	200
4.001 ~ 5.000	150
5.001 ~ 6.000	120
6.001 ~ 7.000	100
7.001 ~ 9.000	80
9.001 ~ 13.000	60
13.001 ~ 20.000	40
20.001 ~ 30.000	30
Third Overtone Mode	
27.000 ~ 100.000	100

DIMENSIONS(Unit=mm)



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49S	3.5
49S2	2.5
49S3	2.0

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Specifications subject to change without notice (Rev A)