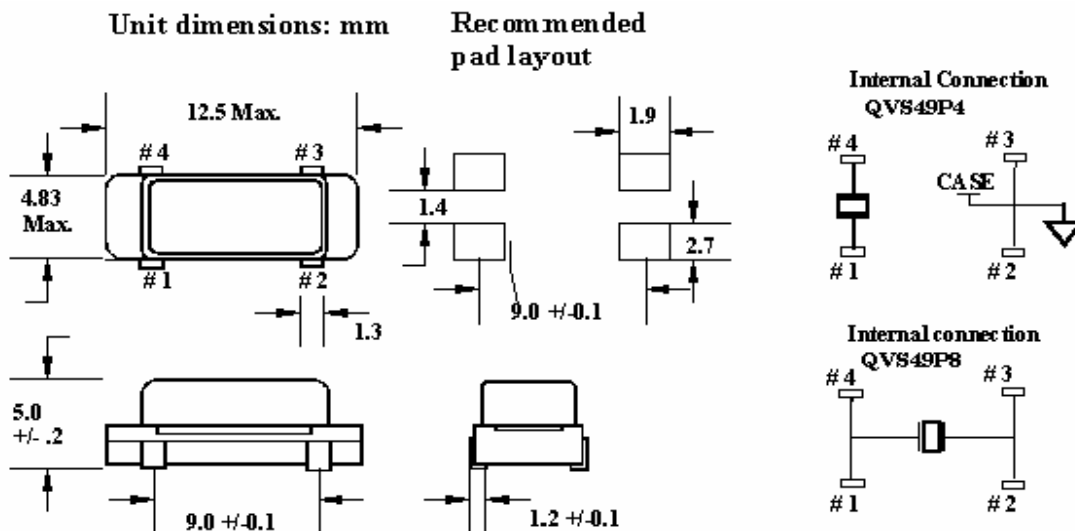


STANDARD SPECIFICATIONS						
Frequency Range	3.500MHz ~ 70.00MHz					
Frequency Tolerance (25 °C)	± 50 ppm Standard (see Crystal Part Number Guide for more details)					
Load Capacity (CL)	18pF Standard (see Crystal Part Number Guide for more details)					
Shunt Capacity (Co)	7.0pF max					
Equivalent Series Resistance (E.S.R)	See Table					
Insulation Resistance	500 MΩ min					
Aging (First Year)	± 5 ppm max					
Frequency Stability over Operating Temp.	± 100 ppm Standard (see Crystal Part Number Guide for more details)					
Drive Level	200μW(3.5MHz ~ 10MHz), 500μW(>10MHz)					
Operating Temperature Range	0°C ~+70°C Standard (see Crystal Part Number Guide for more details)					
Storage Temperature Range	-40 °C ~+85 °C					
Sealing	1×10 <sup>-7</sup> mbar/sec. max					
Shock Resistance	±5 ppm, Drop test 3 times on hard board from 75cm height.					
<b>EQUIVALENT SERIES RESISTANCE (E.S.R.)</b>	Frequency (MHz)	Max ESR (Ω)				
	3.5~4.0	200				
	4.0~6.0	150				
	6.0~10.0	100				
	10.0~30.0	50				
	>30.0 (Fund.)	100				
<b>Ordering Instructions (see Crystal Part Number Guide for more details)</b>						
<b>Example: QVS Part # = QVS49P8-21AF18-16.000</b>						
QVS49P8	±50ppm(@ 25°) 2	±100ppm(Over Temp) 1	(0°C~+70°C) A	Fundamental F	Load Cap. 18pF	Freq. -16.000MHz

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



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