



## Features

- > Low profile 1.5 mm; 2 pads glass sealed crystal units.
- > Ceramic package assures high reliability.
- > Tight tolerance and stability available.
- > Designed for automatic mounting and reflow soldering.
- > Reasonable cost and good delivery performance.
- > The best choice of PC, and Notebook.
- > Contains Pb in sealing glass exempted by RoHS directive.

### Electrical Specifications

Frequency Range	6.000 ~ 100 MHz
Load Capacitance	Series, 6~32 pF, or specify
Frequency Tolerance (at 25 °C)	±10, ±30 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10, ±30 ppm, or specify
Operating Temperature Range	-20 ~ +70 °C, or specify
Storage Temperature Range	-40 ~ +85 °C
Shunt Capacitance (C0)	7 pF Max.
Drive Level	1 ~ 1000 μW (100 μW typical)
Insulation Resistance	500 MΩ Minimum at 100VDC
Aging (at 25°C)	±3 ppm / year Max.

### Equivalent Series Resistance(ESR)

Frequency Range (MHz)	Mode	ESRΩ(MAX)
6.000~9.999	FOUN	80
10.000~15.999	FOUN	60
16.000~29.999	FOUN	40
30.000~54.000	FOUN	30
40.000~83.999	3rd	80
84.000~100.000	3rd	60

### Frequency Stability Over Operating Temperature Range

Temperature Range	Frequency Stability (ppm)			
	±10	±15	±20	±30
0 ~ +50°C	*	*	*	*
-10 ~ +60°C	*	*	*	*
-20 ~ +70°C	*	*	*	*
-30 ~ +80°C		*	*	*
-40 ~ +85°C			*	*

### Dimensions

