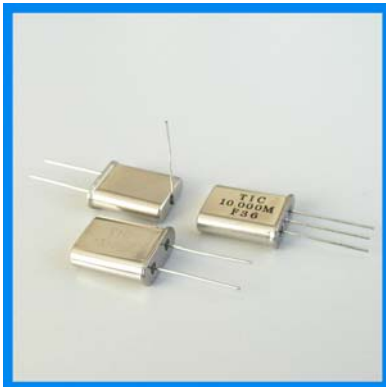
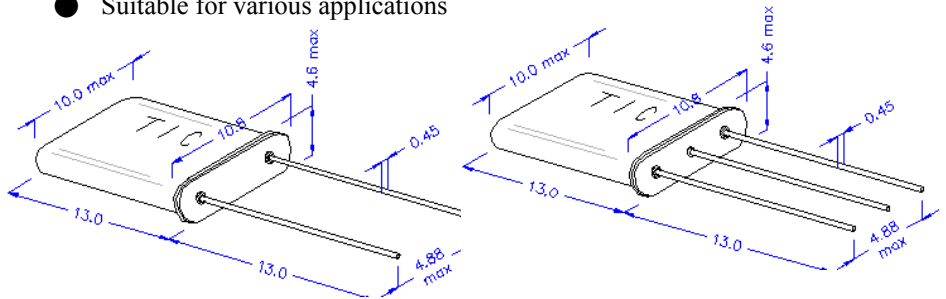


Crystal Unit



- Tape and reel package available
- Grounded upon request
- Suitable for various applications



Standard Parameter

Frequency Range	1.800 MHz ~ 160.000 MHz	
Frequency Tolerance (at 25 °C)	±10ppm / ±20ppm / ±30ppm	
Load Capacitance	20pF / upon request	
Frequency Stability	±10ppm / ±30ppm / ±50ppm	
Operating Temperature Range	-20 °C ~ +70 °C	-40 °C ~ +85 °C
Storage Temperature Range	-40 °C ~ +85 °C	-55 °C ~ +125 °C
Equivalent Resistance	Refer to the following table	
Shunt Capacitance	7 pF max	
Drive Level	100 μW max	
Insulation Resistance	500MΩ min at DC100V ±15V	
Aging (at 25 °C per year)	±5ppm	

Equivalent Series Resistance

Frequency Range (MHz)	Mode of Oscillation	Series Resistance
1.800 ~ 1.999	Fundamental	600 Ω
2.000 ~ 2.999		500 Ω
3.000 ~ 3.499		150 Ω
3.500 ~ 3.999		100 Ω
4.000 ~ 4.999		80 Ω
5.000 ~ 7.999		60 Ω
8.000 ~ 9.999		40 Ω
10.000 ~ 15.999		35 Ω
16.000 ~ 24.999		30 Ω
25.000 ~ 35.999		40 Ω
25.000 ~ 89.999	3 rd Overtone	40 Ω
75.000 ~ 160.000	5 th Overtone	80 Ω