

## DT38



Size:  $\Phi 3.0 \times 8.0$

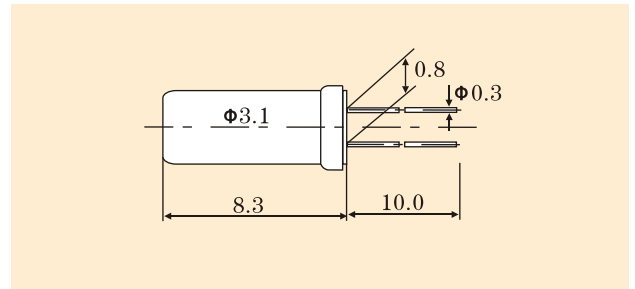
### Features

- PIN Type
- Small size
- Source of clock signal
- Low power consumption

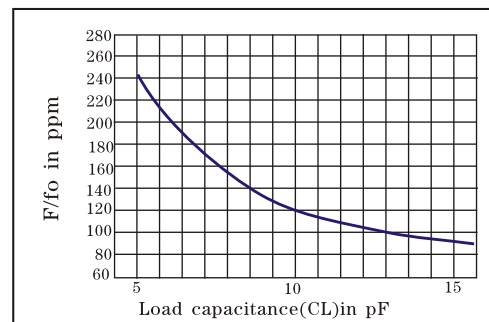
### Specification (characteristics)

Frequency Range	32.768KHz/40KHz/75KHz/76.8KHz
Frequency Tolerance $F_i$	GRADE A $\pm 10$ ppm GRADE B $\pm 20$ ppm
Load capacitance	12.5pF(Typ.)
Measurement Drive Level	$1.0 \pm 0.2 \mu W$
Series Resistance	30K $\Omega$ max
Q-Factor	80,000(Typ.) 50,000min
Turnover Temperature	$25^\circ C \pm 5^\circ C$
Parabolic Curvature Constant	$-0.036 \pm 0.006$ ppm/ $C^2$
Shunt Capacitance	1.3pF(Typ.) 2.0pFmax.
Capacitance Ratio	530(Typ.) 650max.
Operating Temp. Range	$-10 \sim +60^\circ C$
Storage Temp. Range	$-20 \sim +70^\circ C$
Shock Resistance	$\pm 3$ ppmmax. Natural Drop 3 Times on Hard Wooden Board from height of 75cm
Insulation Resistance	500M $\Omega$ min./DC100V

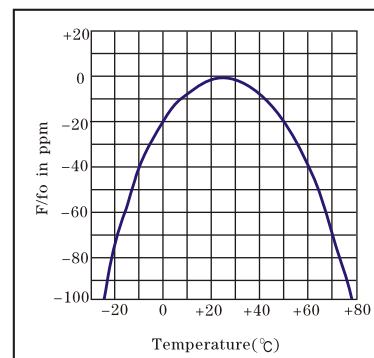
### External Dimensions



FREQUENCY DEVIATION VS. LOAD CAPACITANCE (TYPICAL)



TEMPERATURE CHARACTERISTICS (TYPICAL)



PART NUMBER GUIDE 部件号示例 E.g. FTX32.768K 12.5pFD6 (\*D6=DT38)

	Quartz crystal resonator	Frequency (32.768KHz)	LOAD Capacitance	*Package Type
FT	X	32.768M	12.5	D6