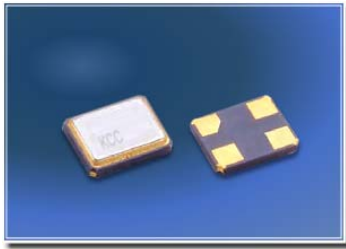


## K.C.C Crystal (M32 Series)



### Features & Applications

- 3.2x2.5x0.75mm Size
- Ceramic Package
- High Frequency Stability
- Excellent Vibration Resistance & Shock Resistance
- RoHS & REACH Compliant, Pb Free

### General Specifications

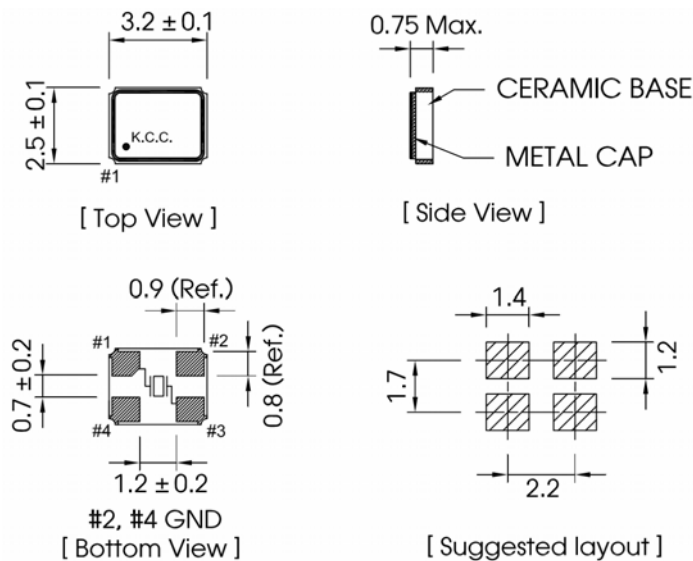
Parameter	M32
Frequency Range ( Fundamental )	10.0 ~ 54.0 MHz
Frequency Tolerance	±10~50 ppm @25°C
Frequency stability	±15~100 ppm @25°C
Operating Temperature Range	-10 to +70°C or specify (-40 ~ +150°C is available)
Storage Temperature Range	-55 to +125°C
Load Capacitance	Series or Parallel ( 4 to 39 pF ) resonance
Shunt Capacitance	5.0 pF (Max.)
Drive Level	15 / 30 / 50 / 100 / 200 / 500 or special requirement
Aging	± 5 ppm per year (Max.)

### Equivalent Series Resistance (ESR)

Frequency Range	Vibration Mode	ESR (Ω Max.)
10.000 ~ 11.999MHz	F	200
12.000 ~ 22.999MHz	F	100
30.000 ~ 54.000MHz	F	50

※F: Fundamental/AT

### Outline and Dimensions [Unit: mm]



### Order Part No.:

Product name: **X 25.000 M32 - 20 - 4P - G T Z**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① KCC Crystal
- ② Frequency (Standard ± 30ppm)
- ③ Size Type : M32=3.2x2.5x0.75mm
- ④ Load capacitance(pF)
- ⑤ Pad : 2 or 4 pad
- ⑥ RoHS Compliant
- ⑦ Operating temperature : T= -40°C to +85°C
- ⑧ Frequency stability code (±ppm)