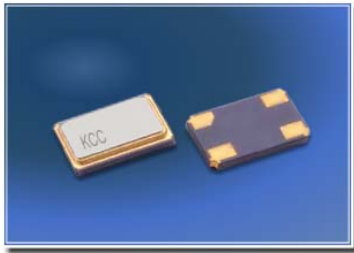


## K.C.C Crystal (M63 Series)



### Features & Applications

- 6.0x3.5x1.1mm Size
- Ceramic Package
- High Frequency Stability
- Excellent Vibration Resistance & Shock Resistance
- RoHS & REACH Compliant, Pb Free

### General Specifications

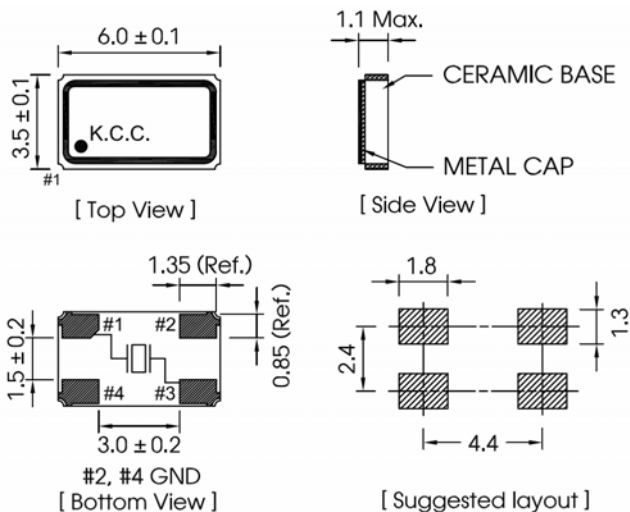
Parameter	M63 (A / B Type)
Frequency Range ( Fundamental )	8.0 ~ 52.0 MHz
Frequency Range (3rd overtone)	40.0 ~ 133.0 MHz
Frequency Tolerance	±10~100 ppm @25°C
Frequency stability	±15~100 ppm @25°C
Operating Temperature Range	-10 to +70°C or specify (-40 ~ +150°C is available)
Storage Temperature Range	-55 to +125°C
Load Capacitance	Series or Parallel ( 4 to 39 pF ) resonance
Shunt Capacitance	7.0 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.)	Frequency Range	Vibration Mode	ESR (Ω Max.)
8.000~10.000MHz	F	150	30.001~40.000MHz	F	30
10.001~12.000MHz	F	80	40.001~52.000MHz	F	20
12.001~15.000MHz	F	60	40.000~52.000MHz	3rd	100
15.001~20.000MHz	F	50	52.001~80.000MHz	3rd	80
20.001~30.000MHz	F	40	80.001~133.000MHz	3rd	70

※F: Fundamental/AT

### Outline and Dimensions (A-Type) [Unit: mm]



### Order Part No.:

Product name: **X 25.000 M63 - 20 - 4P - G T Z**

① ② ③ ④ ⑤ ⑥⑦⑧

- ① KCC Crystal
- ② Frequency (Standard ± 30ppm)
- ③ Size Type : M63=3x2x0.75mm
- 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)