



## Quartz Crystal

### 3.2×2.5mm SMD SEAM SEALED CRYSTAL / X3 SERIES

#### ■ Features

- ◎ Extremely small SMD type crystal units.
- ◎ High precision and high frequency stability.
- ◎ The best choice of Bluetooth, wireless communication set, mobile Phone and PDA
- ◎ Lead free parts.

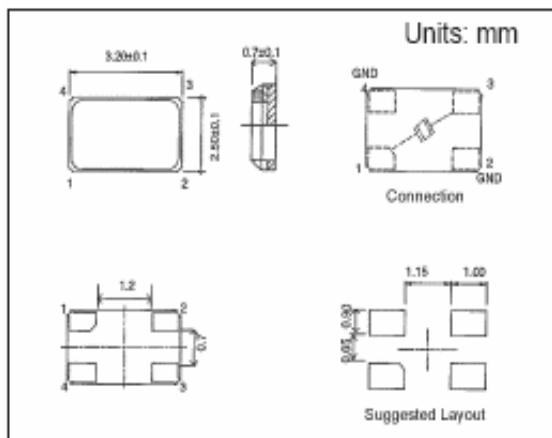
#### ■ Electrical Specifications

Item	type	X3
Frequency Range		12~40MHz
Frequency Tolerance(at 25°C)		±10ppm, ±30ppm, or specify
Frequency Stability Over Operating Temperature Range		±10ppm, ±30ppm, or specify
Operating Temperature Range		-10 ~ +60°C, -20 ~ +70°C, or specify
Shunt Capacitance (C0)		5 PF Max
Drive Level		1~50 μ W (10 μ W typical)
Load Capacitance		10PF or specify
Aging (at 25°C)		±3ppm / year Max.
Storage Temperature Range		-40 ~ +85°C

#### ■ Equivalent Series Resistance (ESR)

Fundamental	
12~ 40MHz	60 Ω Max

#### ■ Dimensions



#### ■ Reflow Condition

