



Quartz Crystal

5×3.2mm SMD SEAM SEALED CRYSTAL / X5 SERIES

■ Features

- ◎ Ultra small SMD type crystal units.
- ◎ High precision characteristic covering up to high frequency range.
- ◎ High frequency stability and reliability.
- ◎ The best choice of Bluetooth, wireless communication set, mobile Phone, DSC, PDA, and USB interface card.
- ◎ Lead free parts.

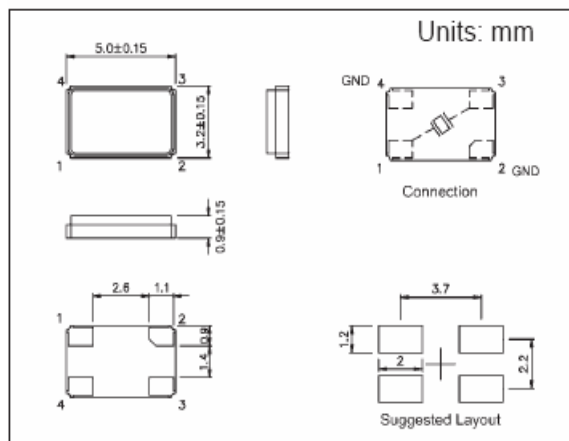
■ Electrical Specifications

Item	type	X5
Frequency Range		12~100MHz
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)		7 PF Max
Drive Level		1~100 μ W (100 μ W typical)
Load Capacitance		9PF, 10PF, 12PF, 16PF, 20PF, 30PF, 32PF or specify
Aging (at 25°C)		± 3ppm / year Max.
Storage Temperature Range		-40 ~ +85°C

■ Equivalent Series Resistance (ESR)

Fundamental		3 rd Overtone	
10 ~ 48MHz	40 Ω Max	40 ~ 60 MHz	120 Ω Max
		60 ~ 100 MHz	80 Ω Max

■ Dimensions



■ Reflow Condition

