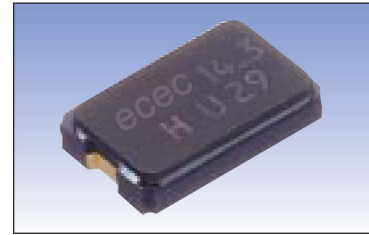


5 x 3.2 mm SMD GLASS SEALED CRYSTAL / 7A SERIES**■ Features**

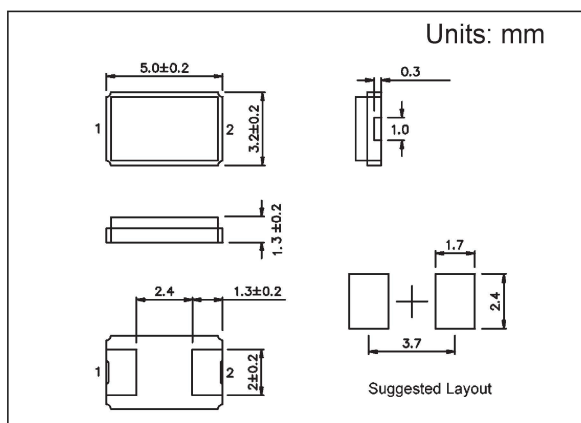
- Small SMD glass sealed crystal units.
- High reliable environmental performance.
- Tight tolerance and stability parts are available.
- Designed for automatic mounting and reflow soldering.
- Reasonable cost and good delivery performance.
- The best choice of portable PC, PDA, DSC, and USB interface card.
- Contains Pb in sealing glass exempted by RoHS directive.

**■ Electrical Specifications**

Item	Type	7A
Frequency Range		10 ~ 80 MHz
Frequency Tolerance (at 25 °C)		± 30 ppm, or specify
Frequency Stability Over Operating Temperature Range		±50 ppm, or specify
Operating Temperature Range		-10 ~ +70 °C, or specify
Shunt Capacitance (C0)		5 pF Max.
Drive Level		1 ~ 200 μW (100 μW typical)
Load Capacitance		Series, 6 pF, 10 pF, 16 pF, 20 pF, or specify
Aging (at 25 °C)		± 3 ppm / year Max.
Storage Temperature Range		-40 ~ +85 °C

■ Equivalent Series Resistance (ESR)

Fundamental		3rd Overtone	
10 ~ 20 MHz	80 Ω Max.	40 ~ 60 MHz	150 Ω Max.
20 ~ 50 MHz	50 Ω Max.	60 ~ 80 Mhz	100 Ω Max.

■ Dimensions**■ Reflow Condition**