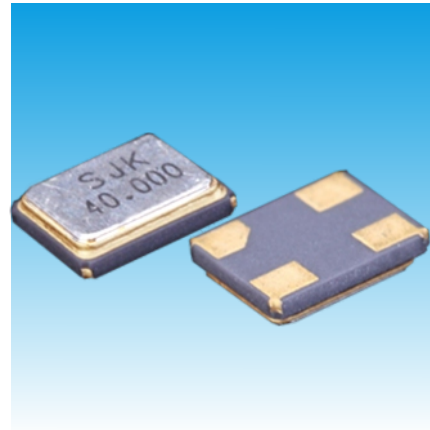


**Features**

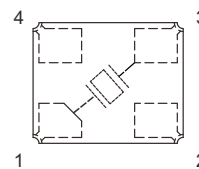
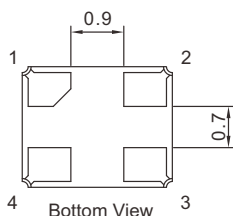
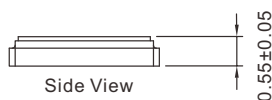
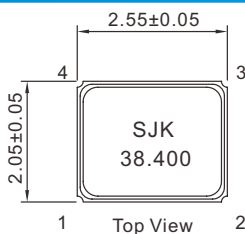
- 2520 size ultra miniature and lightweight SMD crystal units with low profile of 0.55mm
- Frequency range from 12MHz to 54MHz
- High precision and high frequency stability
- Allowing for high density surface mounting
- Automatic mounting and reflow soldering
- Applications: *Wireless Communications, PC, DSC, PDA, Wearables, etc.*
- RoHS Compliant & Pb Free


**Standard Specifications**

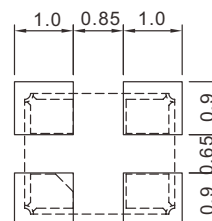
Type	7E Series SMD Crystal
Frequency Range	12~54 MHz
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm
Frequency Stability (over Operating Temp.)	±10ppm, ±20ppm
Operating Temperature Range	-40~+85°C, or specify
Shunt Capacitance (C <sub>0</sub> )	5pF Max.
Drive Level	1~200μW (50μW Typ.)
Load Capacitance	8pF, 10pF, 12pF, or specify
Aging (at 25°C)	±3ppm /year Max.
Storage Temperature Range	-55~+125°C
Packing Unit	3000pcs./Reel

**Equivalent Series Resistance**

Fundamental	
12~13 MHz	150Ω Max.
12~30 MHz	60Ω Max.
30~54 MHz	60Ω Max.

**Dimensions [mm]**


Top View Crystal Connection



Top View Suggested Layout