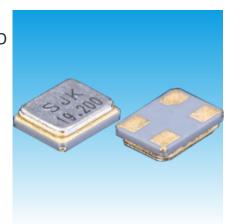


Features

- 2016 size ultra miniature and lightweight SMD crystal units with low profile of 0.5mm
- Frequency range from 16MHz to 54MHz
- High precision and high frequency stability
- Allowing for high density surface mounting
- Automatic mounting and reflow soldering
- Application for wireless communications, PC, IPAD, PDA, Wearable device, etc.
- RoHS Compliant /Pb Free

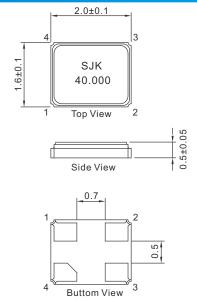


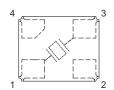
Standard Specification

Standard Specification		
Item /Type	7F (7F Series SMD Crystal Units)	
Frequency Range	16~54 MHz	
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm, or specify	
Frequency stability Over Operating Temperature	±10ppm, ±20ppm, or specify	
Operating Temperature Range	-20~+70°C, or specify	
Shunt Capacitance (C₀)	5pF Max.	
Drive Level	1~200μW (50μW Typ.)	
Load Capacitance	8pF, 10pF, or specify	
Aging (at 25°C)	±3ppm/year Max.	
Storage Temperature Range	-55~+125℃	
Packing Unit	3000pcs.	

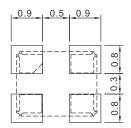
Equivalent Series Resistance		
Fundamental		
16~19.2 MHz	200Ω Max.	
19.2~30 MHz	100Ω Max.	
30~54 MHz	80Ω Max.	

Dimensions [mm]





Top View Crystal Connection



Top View Suggested Layout