

RoHS
Compliant



Applications

- Wireless Communications
- PC
- IPAD
- PDA
- Wearables, etc.

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

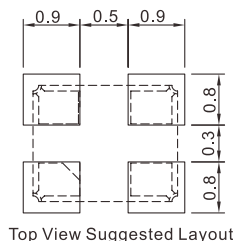
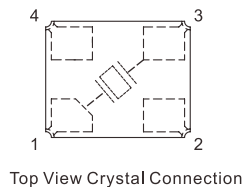
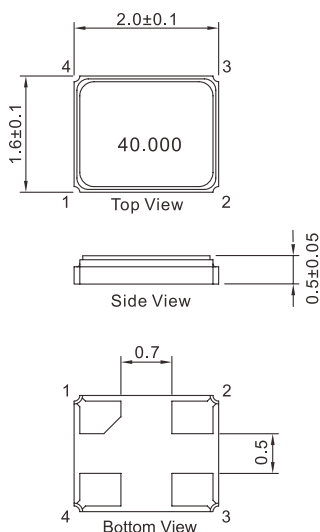
Standard Specifications

Type	add MP-7F series SMD Crystal
Frequency Range	16~54 MHz
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm
Frequency Stability (over Operating Temp.)	±10ppm, ±20ppm
Operating Temperature Range	-40°C to +85°C
Shunt Capacitance (C ₀)	5pF Max.
Drive Level	1~200μW (50μW Typ.)
Load Capacitance	6pF, 8pF 9pF, 10pF, 12pF, or specify
Aging (at 25°C)	±3ppm /year Max.
Storage Temperature Range	-55°C to +125°C
Packing Unit	3000pcs./Reel

Equivalent Series Resistance

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

Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 16.000MHz	MP-7F-16.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 9PF,10PPM, 16.000MHz	MP-7F-16.00-9-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 24.000MHz	MP-7F-24.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 9PF,10PPM, 24.000MHz	MP-7F-24.00-9-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 25.000MHz	MP-7F-25.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 18PF,10PPM, 25.000MHz	MP-7F-25.00-18-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 9PF,10PPM, 26.000MHz	MP-7F-26.00-9-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 27.000MHz	MP-7F-27.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 6PF,10PPM, 27.120MHz	MP-7F-27.12-6-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 10PF,10PPM, 30.000MHz	MP-7F-30.00-10-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 30.000MHz	MP-7F-30.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 32.000MHz	MP-7F-32.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 6PF,10PPM, 32.000MHz	MP-7F-32.00-6-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 38.400MHz	MP-7F-38.40-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 12PF,10PPM, 40.000MHz	MP-7F-40.00-12-10-60-B-10
SMD Crystal, 2mm × 1.6mm, 9PF,10PPM, 40.000MHz	MP-7F-40.00-9-10-60-B-10

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