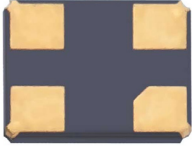


RoHS
Compliant



Applications

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

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

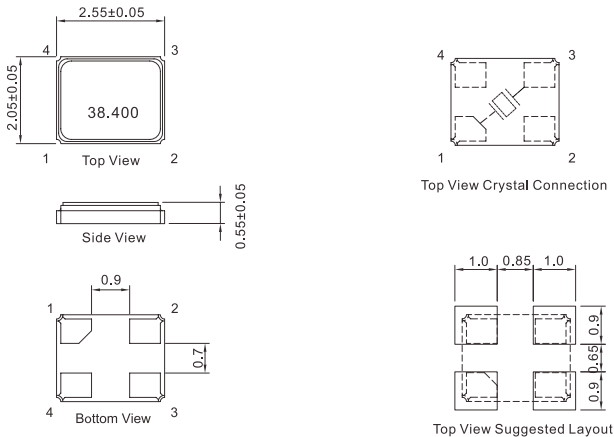
Standard Specifications

Type	MP-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°C to +85°C, or specify
Shunt Capacitance (C ₀)	5pF Max.
Drive Level	1~200μW (50μW Typ.)
Load Capacitance	8pF, 10pF, 9pF
Aging (at 25°C)	±3ppm /year Max.
Storage Temperature Range	-55°C to +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



Dimensions : Millimetres

Part Number Table

Description	Part Number
SMD Crystal, 2.5mm × 2mm, 20PPM, 10PF, 12.000MHz	MP-7E-12.00-10-20-80-C-20
SMD Crystal, 2.5mm × 2mm, 10PPM, 12PF, 12.000MHz	MP-7E-12.00-12-10-80-C-30
SMD Crystal, 2.5mm × 2mm, 18PF, 10PPM, 12.000MHz	MP-7E-12.00-18-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 8PF, 10PPM, 12.000MHz	MP-7E-12.00-8-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 16.000MHz	MP-7E-16.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 18PF, 10PPM, 16.000MHz	MP-7E-16.00-18-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 9PF, 10PPM, 16.000MHz	MP-7E-16.00-9-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 20.000MHz	MP-7E-20.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 24.000MHz	MP-7E-24.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 9PF, 10PPM, 24.000MHz	MP-7E-24.00-9-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 25.000MHz	MP-7E-25.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 26.000MHz	MP-7E-26.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 9PF, 10PPM, 26.000MHz	MP-7E-26.00-9-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 27.000MHz	MP-7E-27.00-12-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 18PF, 10PPM, 27.000MHz	MP-7E-27.00-18-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 8PF, 10PPM, 30.000MHz	MP-7E-30.00-8-10-80-B-10
SMD Crystal, 2.5mm × 2mm, 12PF, 10PPM, 32.000MHz	MP-7E-32.00-12-10-60-B-10
SMD Crystal, 2.5mm × 2mm, 10PF, 10PPM, 38.400MHz	MP-7E-38.40-10-10-60-B-10
SMD Crystal, 2.5mm × 2mm, 8PF, 10PPM, 38.400MHz	MP-7E-38.40-8-10-60-B-10
SMD Crystal, 2.5mm × 2mm, 9PF, 10PPM, 40.000MHz	MP-7E-40.00-9-10-60-B-10

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