

RoHS
Compliant



Applications

- Telecommunications
- DVC
- PC
- DSC
- PDA
- Wearables, etc.

Features

- 3225 size ultra miniature and lightweight SMD crystal units with low profile of 0.7mm
- Frequency range from 10MHz to 64MHz
- High precision and high reliability
- Automatic mounting and reflow soldering

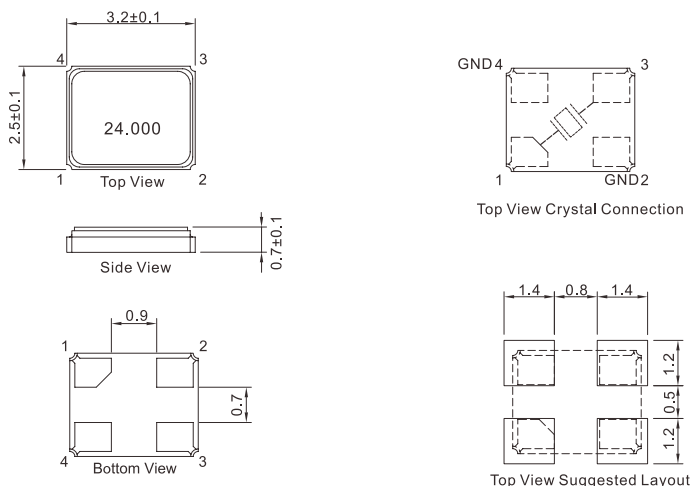
Standard Specifications

Type	MP7U Series SMD Crystal
Frequency Range	10~64 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 (100μW Typ.)
Load Capacitance	8pF to 20pF, 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	
10~16 MHz	100Ω Max.
16~20 MHz	80Ω Max.
20~64 MHz	60Ω Max.

Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
SMD Crystal, 3.2mm × 2.5mm, 12PF, 10PPM, 10.000MHz	MP-7U-10.00-12-10-150-C-30
SMD Crystal, 3.2mm × 2.5mm, 18PF, 20PPM, 10.000MHz	MP-7U-10.00-18-20-150-B-30
SMD Crystal, 3.2mm × 2.5mm, 18PF, 10PPM, 11.0592MHz	MP-7U-11.0592-18-10-150-C-30
SMD Crystal, 3.2mm × 2.5mm, 18PF, 10PPM, 12.000MHz	MP-7U-12.00-18-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 18PF, 10PPM, 16.000MHz	MP-7U-16.00-18-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 9PF, 10PPM, 16.000MHz	MP-7U-16.00-9-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 18PF, 10PPM, 20.000MHz	MP-7U-20.00-18-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 20PF, 10PPM, 24.000MHz	MP-7U-24.00-20-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 9PF, 10PPM, 24.000MHz	MP-7U-24.00-9-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 20PF, 10PPM, 25.000MHz	MP-7U-25.00-20-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 16PF, 10PPM, 26.000MHz	MP-7U-26.00-16-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 9PF, 10PPM, 26.000MHz	MP-7U-26.00-9-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 18PF, 10PPM, 27.000MHz	MP-7U-27.00-18-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 20PF, 10PPM, 27.120MHz	MP-7U-27.12-20-10-60-B-10
SMD Crystal, 3.2mm × 2.5mm, 9PF, 10PPM, 40.000MHz	MP-7U-40.00-9-10-40-B-10
SMD Crystal, 3.2mm × 2.5mm, 10PF, 10PPM, 8.000MHz	MP-7U-8.00-10-10-150-C-50
SMD Crystal, 3.2mm × 2.5mm, 12PF, 10PPM, 8.000MHz	MP-7U-8.00-12-10-150-C-50
SMD Crystal, 3.2mm × 2.5mm, 8PF, 10PPM, 8.000MHz	MP-7U-8.00-8-10-150-C-50

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.