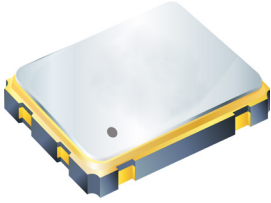


Crystal Resonator

SMD 3225 (3.2mm × 2.5mm × 0.7mm)

multicomp PRO

**RoHS
Compliant**



Application

Used in PDA, DSC, DVC, Wireless communication, Mobile phone, PC, and more.

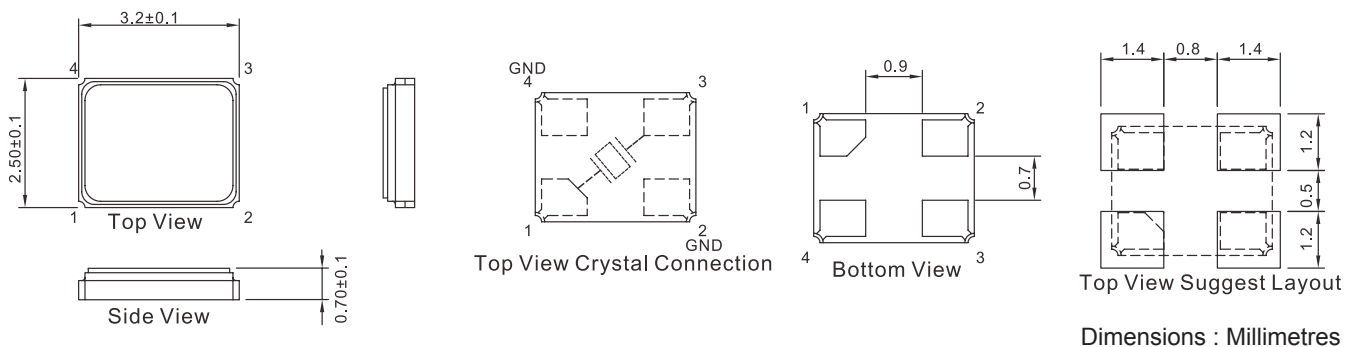
Features

- 3225 size miniature and light SMD crystal resonator with a low profile of 0.7mm
- Wide frequency range from a comparatively low 12MHz up to 48MHz
- High precision and high frequency stability
- Excellent heat resistance and environmental characteristics
- Automatic mounting and reflow soldering

Electrical Specifications

| | |
|--|--------------------------------|
| Frequency Range | : 12 ~ 48MHz |
| Frequency Tolerance (at 25°C) | : ±10ppm, ±30ppm |
| Frequency Stability Over Operating Temperature Range | : ±10ppm ~ ±30ppm |
| Operating Temperature Range | : -20°C ~ +70°C |
| Shunt Capacitance(C ₀) | : 3pF Max. |
| Drive Level | : 1~200µW Max. (100µW Typical) |
| Load Capacitance | : 10pF, 12pF |
| Equivalent Series Resistance (ESR) | : 60Ω & 80Ω |
| Aging (at 25°C) | : ±3ppm / year Max. |
| Storage Temperature Range | : -55°C ~ +125°C |

Diagram



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multicomp PRO

Crystal Resonator

SMD 3225 (3.2mm × 2.5mm × 7mm)

multicomp PRO

Part Number Table

| Description | Part Number |
|--|---------------------------------|
| Crystal Resonator, 3225, 12MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-12.00-10-10-80-B-10 |
| Crystal Resonator, 3225, 12MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-12.00-10-30-80-B-30 |
| Crystal Resonator, 3225, 12MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-12.00-12-10-80-B-10 |
| Crystal Resonator, 3225, 12MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-12.00-12-30-80-B-30 |
| Crystal Resonator, 3225, 12.288MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-12.288-10-10-80-B-10 |
| Crystal Resonator, 3225, 12.288MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-12.288-10-30-80-B-30 |
| Crystal Resonator, 3225, 12.288MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-12.288-12-10-80-B-10 |
| Crystal Resonator, 3225, 12.288MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-12.288-12-30-80-B-30 |
| Crystal Resonator, 3225, 13.56MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-13.56-10-10-80-B-10 |
| Crystal Resonator, 3225, 13.56MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-13.56-10-30-80-B-30 |
| Crystal Resonator, 3225, 13.56MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-13.56-12-10-80-B-10 |
| Crystal Resonator, 3225, 13.56MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-13.56-12-30-80-B-30 |
| Crystal Resonator, 3225, 14.31818MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-14.31818-10-10-80-B-10 |
| Crystal Resonator, 3225, 14.31818MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-14.31818-10-30-80-B-30 |
| Crystal Resonator, 3225, 14.31818MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-14.31818-12-10-80-B-10 |
| Crystal Resonator, 3225, 14.31818MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-14.31818-12-30-80-B-30 |
| Crystal Resonator, 3225, 14.7456MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-14.7456-10-10-80-B-10 |
| Crystal Resonator, 3225, 14.7456MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-14.7456-10-30-80-B-30 |
| Crystal Resonator, 3225, 14.7456MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-14.7456-12-10-80-B-10 |
| Crystal Resonator, 3225, 14.7456MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-14.7456-12-30-80-B-30 |
| Crystal Resonator, 3225, 16MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.00-10-10-80-B-10 |
| Crystal Resonator, 3225, 16MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.00-10-30-80-B-30 |
| Crystal Resonator, 3225, 16MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.00-12-10-80-B-10 |
| Crystal Resonator, 3225, 16MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.00-12-30-80-B-30 |
| Crystal Resonator, 3225, 16.384MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.384-10-10-80-B-10 |
| Crystal Resonator, 3225, 16.384MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.384-10-30-80-B-30 |
| Crystal Resonator, 3225, 16.384MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.384-12-10-80-B-10 |
| Crystal Resonator, 3225, 16.384MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.384-12-30-80-B-30 |
| Crystal Resonator, 3225, 16.934MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.934-10-10-80-B-10 |
| Crystal Resonator, 3225, 16.934MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-16.934-10-30-80-B-30 |
| Crystal Resonator, 3225, 16.934MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.934-12-10-80-B-10 |
| Crystal Resonator, 3225, 16.934MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-16.934-12-30-80-B-30 |
| Crystal Resonator, 3225, 18.432MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-18.432-10-10-80-B-10 |
| Crystal Resonator, 3225, 18.432MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-18.432-10-30-80-B-30 |
| Crystal Resonator, 3225, 18.432MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-18.432-12-10-80-B-10 |
| Crystal Resonator, 3225, 18.432MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-18.432-12-30-80-B-30 |
| Crystal Resonator, 3225, 19.2MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-19.20-10-10-80-B-10 |
| Crystal Resonator, 3225, 19.2MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-19.20-10-30-80-B-30 |

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Crystal Resonator

SMD 3225 (3.2mm × 2.5mm × 7mm)

multicomp PRO

| Description | Part Number |
|--|---------------------------------|
| Crystal Resonator, 3225, 19.2MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-19.20-12-10-80-B-10 |
| Crystal Resonator, 3225, 19.2MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-19.20-12-30-80-B-30 |
| Crystal Resonator, 3225, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-20.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-20.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-20.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-20.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-24.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-24.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-24.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-24.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-24.576-10-10-60-B-10 |
| Crystal Resonator, 3225, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-24.576-10-30-60-B-30 |
| Crystal Resonator, 3225, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-24.576-12-10-60-B-10 |
| Crystal Resonator, 3225, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-24.576-12-30-60-B-30 |
| Crystal Resonator, 3225, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-25.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-25.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-25.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-25.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-26.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-26.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-26.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-26.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-27.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-27.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-27.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-27.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-27.12-10-10-60-B-10 |
| Crystal Resonator, 3225, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-27.12-10-30-60-B-30 |
| Crystal Resonator, 3225, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-27.12-12-10-60-B-10 |
| Crystal Resonator, 3225, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-27.12-12-30-60-B-30 |
| Crystal Resonator, 3225, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-28.63636-10-10-60-B-10 |
| Crystal Resonator, 3225, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-28.63636-10-30-60-B-30 |
| Crystal Resonator, 3225, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-28.63636-12-10-60-B-10 |
| Crystal Resonator, 3225, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-28.63636-12-30-60-B-30 |
| Crystal Resonator, 3225, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-30.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-30.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-30.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-30.00-12-30-60-B-30 |

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Crystal Resonator

SMD 3225 (3.2mm × 2.5mm × 7mm)

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| Description | Part Number |
|--|------------------------------|
| Crystal Resonator, 3225, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-32.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-32.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-32.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-32.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-36.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-36.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-36.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-36.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 38.4MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-38.4-10-10-60-B-10 |
| Crystal Resonator, 3225, 38.4MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-38.4-10-30-60-B-30 |
| Crystal Resonator, 3225, 38.4MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-38.4-12-10-60-B-10 |
| Crystal Resonator, 3225, 38.4MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-38.4-12-30-60-B-30 |
| Crystal Resonator, 3225, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-40.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-40.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-40.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-40.00-12-30-60-B-30 |
| Crystal Resonator, 3225, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF | MCSJK-7U-48.00-10-10-60-B-10 |
| Crystal Resonator, 3225, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF | MCSJK-7U-48.00-10-30-60-B-30 |
| Crystal Resonator, 3225, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF | MCSJK-7U-48.00-12-10-60-B-10 |
| Crystal Resonator, 3225, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF | MCSJK-7U-48.00-12-30-60-B-30 |

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