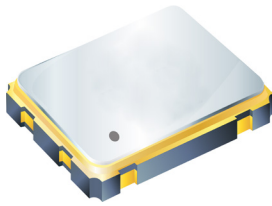


Crystal Resonator

SMD 5032 (5mm × 3.2mm × 0.9mm)

multicompPRO

**RoHS
Compliant**



Application

Used in Bluetooth, wireless communication set, DSC, PDA, mobile phone, USB interface card, etc.

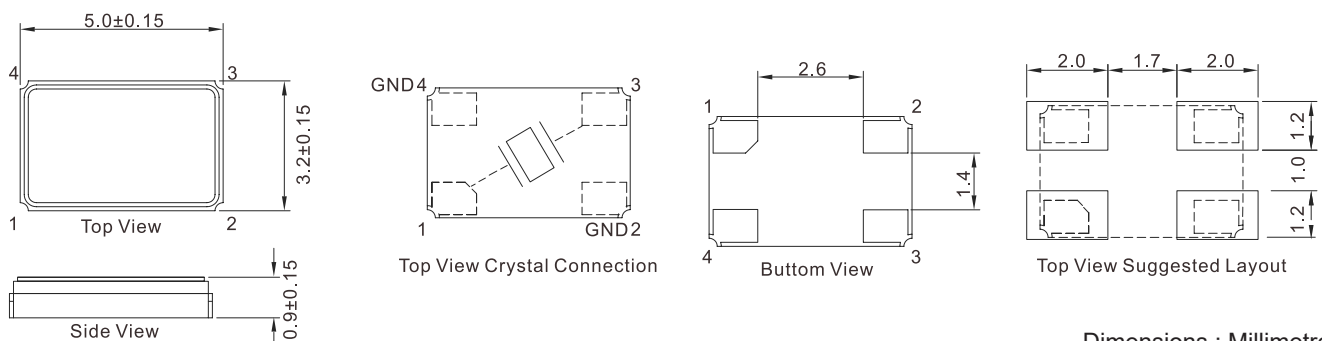
Features

- 2016 size miniature and light SMD crystal resonator with a low profile of 0.5mm
- Wide frequency range from a comparatively low 8MHz up to 48MHz
- High precision and high frequency stability
- Excellent for reducing EMI effect
- Automatic mounting and reflow soldering

Electrical Specifications

Frequency Range	: 8 ~ 48MHz
Frequency Tolerance (at 25°C)	: ±10ppm, ±30ppm
Frequency Stability Over Operating Temperature Range	: ±10ppm, ±30ppm
Operating Temperature Range	: -20°C to +70°C
Shunt Capacitance (C ₀)	: 5pF Max.
Drive Level	: 1 ~ 200μW Max. (100μW Typical)
Load Capacitance	: 10pF, 18pF
Equivalent Series Resistance (ESR)	: 60Ω
Aging (at 25°C)	: ±3ppm / year Max.
Storage Temperature Range	: -55°C ~ +125°C

Diagram



Dimensions : Millimetres

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Crystal Resonator

SMD 5032 (5mm × 3.2mm × 0.9mm)

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Part Number Table

Description	Part Number
Crystal Resonator, 5032, 8MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-8.00-10-10-60-B-10
Crystal Resonator, 5032, 8MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-8.00-10-30-60-B-30
Crystal Resonator, 5032, 8MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-8.00-18-10-60-B-10
Crystal Resonator, 5032, 8MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-8.00-18-30-60-B-30
Crystal Resonator, 5032, 10MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-10.00-10-10-60-B-10
Crystal Resonator, 5032, 10MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-10.00-10-30-60-B-30
Crystal Resonator, 5032, 10MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-10.00-18-10-60-B-10
Crystal Resonator, 5032, 10MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-10.00-18-30-60-B-30
Crystal Resonator, 5032, 11.0592MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-11.0592-10-10-60-B-10
Crystal Resonator, 5032, 11.0592MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-11.0592-10-30-60-B-30
Crystal Resonator, 5032, 11.0592MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-11.0592-18-10-60-B-10
Crystal Resonator, 5032, 11.0592MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-11.0592-18-30-60-B-30
Crystal Resonator, 5032, 12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-12.00-10-10-60-B-10
Crystal Resonator, 5032, 12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-12.00-10-30-60-B-30
Crystal Resonator, 5032, 12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-12.00-18-10-60-B-10
Crystal Resonator, 5032, 12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-12.00-18-30-60-B-30
Crystal Resonator, 5032, 12.288MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-12.288-10-10-60-B-10
Crystal Resonator, 5032, 12.288MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-12.288-10-30-60-B-30
Crystal Resonator, 5032, 12.288MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-12.288-18-10-60-B-10
Crystal Resonator, 5032, 12.288MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-12.288-18-30-60-B-30
Crystal Resonator, 5032, 13.56MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-13.56-10-10-60-B-10
Crystal Resonator, 5032, 13.56MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-13.56-10-30-60-B-30
Crystal Resonator, 5032, 13.56MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-13.56-18-10-60-B-10
Crystal Resonator, 5032, 13.56MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-13.56-18-30-60-B-30
Crystal Resonator, 5032, 14.31818MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-14.31818-10-10-60-B-10
Crystal Resonator, 5032, 14.31818MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-14.31818-10-30-60-B-30
Crystal Resonator, 5032, 14.31818MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-14.31818-18-10-60-B-10
Crystal Resonator, 5032, 14.31818MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-14.31818-18-30-60-B-30
Crystal Resonator, 5032, 14.7456MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-14.7456-10-10-60-B-10
Crystal Resonator, 5032, 14.7456MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-14.7456-10-30-60-B-30
Crystal Resonator, 5032, 14.7456MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-14.7456-18-10-60-B-10
Crystal Resonator, 5032, 14.7456MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-14.7456-18-30-60-B-30
Crystal Resonator, 5032, 16MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.00-10-10-60-B-10
Crystal Resonator, 5032, 16MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.00-10-30-60-B-30
Crystal Resonator, 5032, 16MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.00-18-10-60-B-10
Crystal Resonator, 5032, 16MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.00-18-30-60-B-30
Crystal Resonator, 5032, 16.384MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.384-10-10-60-B-10
Crystal Resonator, 5032, 16.384MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.384-10-30-60-B-30

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Crystal Resonator

SMD 5032 (5mm × 3.2mm × 0.9mm)

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Description	Part Number
Crystal Resonator, 5032, 16.384MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.384-18-10-60-B-10
Crystal Resonator, 5032, 16.384MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.384-18-30-60-B-30
Crystal Resonator, 5032, 16.934MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.9344-10-10-60-B-10
Crystal Resonator, 5032, 16.934MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-16.9344-10-30-60-B-30
Crystal Resonator, 5032, 16.934MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.9344-18-10-60-B-10
Crystal Resonator, 5032, 16.934MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-16.9344-18-30-60-B-30
Crystal Resonator, 5032, 18.432MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-18.432-10-10-60-B-10
Crystal Resonator, 5032, 18.432MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-18.432-10-30-60-B-30
Crystal Resonator, 5032, 18.432MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-18.432-18-10-60-B-10
Crystal Resonator, 5032, 18.432MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-18.432-18-30-60-B-30
Crystal Resonator, 5032, 19.2MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-19.20-10-10-60-B-10
Crystal Resonator, 5032, 19.2MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-19.20-10-30-60-B-30
Crystal Resonator, 5032, 19.2MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-19.20-18-10-60-B-10
Crystal Resonator, 5032, 19.2MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-19.20-18-30-60-B-30
Crystal Resonator, 5032, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-20.00-10-10-60-B-10
Crystal Resonator, 5032, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-20.00-10-30-60-B-30
Crystal Resonator, 5032, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-20.00-18-10-60-B-10
Crystal Resonator, 5032, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-20.00-18-30-60-B-30
Crystal Resonator, 5032, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-24.00-10-10-60-B-10
Crystal Resonator, 5032, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-24.00-10-30-60-B-30
Crystal Resonator, 5032, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-24.00-18-10-60-B-10
Crystal Resonator, 5032, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-24.00-18-30-60-B-30
Crystal Resonator, 5032, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-24.576-10-10-60-B-10
Crystal Resonator, 5032, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-24.576-10-30-60-B-30
Crystal Resonator, 5032, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-24.576-18-10-60-B-10
Crystal Resonator, 5032, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-24.576-18-30-60-B-30
Crystal Resonator, 5032, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-25.00-10-10-60-B-10
Crystal Resonator, 5032, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-25.00-10-30-60-B-30
Crystal Resonator, 5032, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-25.00-18-10-60-B-10
Crystal Resonator, 5032, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-25.00-18-30-60-B-30
Crystal Resonator, 5032, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-26.00-10-10-60-B-10
Crystal Resonator, 5032, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-26.00-10-30-60-B-30
Crystal Resonator, 5032, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-26.00-18-10-60-B-10
Crystal Resonator, 5032, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-26.00-18-30-60-B-30
Crystal Resonator, 5032, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-27.00-10-10-60-B-10
Crystal Resonator, 5032, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-27.00-10-30-60-B-30
Crystal Resonator, 5032, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-27.00-18-10-60-B-10
Crystal Resonator, 5032, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-27.00-18-30-60-B-30

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Crystal Resonator

SMD 5032 (5mm × 3.2mm × 0.9mm)

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Description	Part Number
Crystal Resonator, 5032, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-27.12-10-10-60-B-10
Crystal Resonator, 5032, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-27.12-10-30-60-B-30
Crystal Resonator, 5032, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-27.12-18-10-60-B-10
Crystal Resonator, 5032, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-27.12-18-30-60-B-30
Crystal Resonator, 5032, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-28.63636-10-10-60-B-10
Crystal Resonator, 5032, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-28.63636-10-30-60-B-30
Crystal Resonator, 5032, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-28.63636-18-10-60-B-10
Crystal Resonator, 5032, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-28.63636-18-30-60-B-30
Crystal Resonator, 5032, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-30.00-10-10-60-B-10
Crystal Resonator, 5032, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-30.00-10-30-60-B-30
Crystal Resonator, 5032, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-30.00-18-10-60-B-10
Crystal Resonator, 5032, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-30.00-18-30-60-B-30
Crystal Resonator, 5032, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-32.00-10-10-60-B-10
Crystal Resonator, 5032, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-32.00-10-30-60-B-30
Crystal Resonator, 5032, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-32.00-18-10-60-B-10
Crystal Resonator, 5032, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-32.00-18-30-60-B-30
Crystal Resonator, 5032, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-36.00-10-10-60-B-10
Crystal Resonator, 5032, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-36.00-10-30-60-B-30
Crystal Resonator, 5032, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-36.00-18-10-60-B-10
Crystal Resonator, 5032, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-36.00-18-30-60-B-30
Crystal Resonator, 5032, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-40.00-10-10-60-B-10
Crystal Resonator, 5032, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-40.00-10-30-60-B-30
Crystal Resonator, 5032, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-40.00-18-10-60-B-10
Crystal Resonator, 5032, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-40.00-18-30-60-B-30
Crystal Resonator, 5032, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7I-48.00-10-10-60-B-10
Crystal Resonator, 5032, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7I-48.00-10-30-60-B-30
Crystal Resonator, 5032, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 18pF	MCSJK-7I-48.00-18-10-60-B-10
Crystal Resonator, 5032, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 18pF	MCSJK-7I-48.00-18-30-60-B-30

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