

SJK1532 32.768kHz MEMS Oscillator

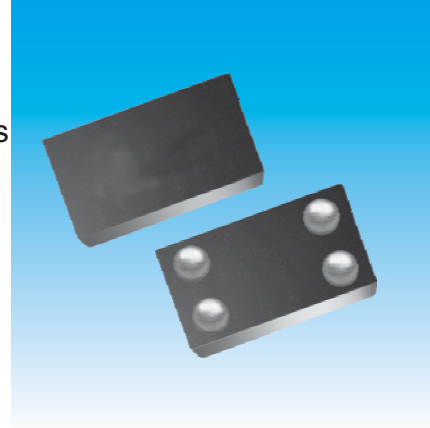


32.768kHz MEMS Oscillators

Ultra-Low Power, Ultra-Small

Features

- Smallest package size: 1.5 × 0.8 mm
- <10 ppm frequency tolerance
- Ultra-low power: <1 μ A
- Oscillator output eliminates external load caps
- Directly interfaces to XTAL inputs
- Vdd supply voltage: 1.5V~3.63V
- Automatic mounting and reflow soldering
- Applications: Mobile phone, Watches, Tables, RTC reference clock, PC, etc.
- RoHS Compliant /Pb Free

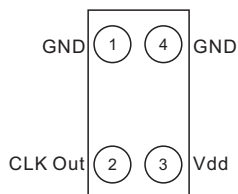


Standard Specification

| Item /Type | SJK1532 |
|--------------------------------|-----------------------------|
| Frequency | 32.768kHz |
| Output Type | LVC MOS /nano Drive |
| Initial Tolerance | 10ppm Max. |
| Frequency Stability | ± 75 ppm~ ± 250 ppm |
| Operating Supply Voltage | 1.2V~3.63V |
| Core Operating Current | 0.9 μ A Max. |
| Output Stage Operating Current | 0.125 μ A /Vp-p |
| Power-supply Ramp | 100ms Max. |
| Start-up Time at Power-up | 180ms Typ. |
| Commercial Temperature | -10~+70°C |
| Industrial Temperature | -40~+85°C |
| Output Rise/Fall Time | 200ns Max. |
| Output Clock Duty Cycle | 48~52% |
| Voltage Vol (Max.) /Voh (Min.) | 10%Vdd /90%Vdd |
| Maximum Output Drive | 50pF Max. |
| Period Jitter | 35ns Typ. |
| Storage Temperature | -65~+165°C |
| Aging (at 25°C) | ± 1 ppm at First Year |
| Packing Unit | 3000pcs./reel |

Pin Functions

Top View



Pin Connections

| Pin No. | Connection |
|---------|------------|
| 1 | GND |
| 2 | CLK Out |
| 3 | Vdd |
| 4 | GND |

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Dimensions [mm]

