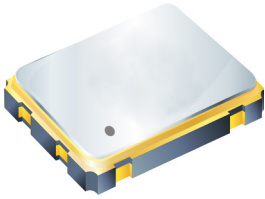


# Crystal Oscillator

## SMD 2520 (2.5mm × 2mm × 0.8mm)



RoHS  
Compliant



### Application

Used in WLAN, Bluetooth, DSC, PC, Mobile phone, TV, DVC, Telecommunications, HDD, etc

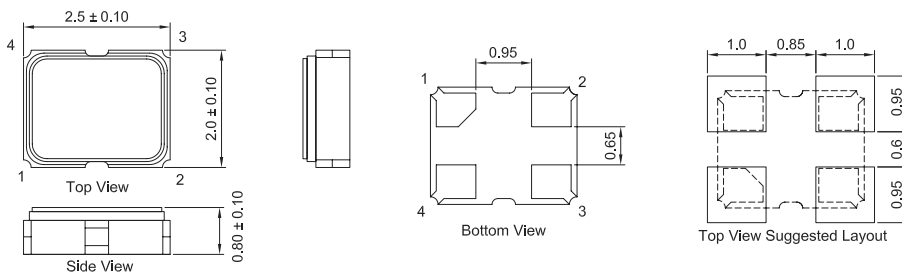
### Features

- 2520 size, 0.8mm height, ultra small SMD seam sealed clock oscillator unit.
- Low voltage operation
- Frequency Range: 4MHz to 48MHz
- 3-state function
- Automatic mounting and reflow soldering

### Electrical Specifications

Output Type	: CMOS
Output Load	: 15pF
Oscillation Mode	: Fundamental
Supply Voltage	: 2.5V
Frequency Range	: 4 ~ 48MHz
Frequency stability	: $\pm 50$ ppm
Operating Temperature Range	: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage Temperature Range	: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Voltage Vol (Max.) / Voh (Min.)	: 0.1VDD / 0.9VDD
Rise(Tr) / Fall(Tf) Time	: 5ns Max.
Supply Current	: 10mA Max.
Symmetry	: 45 ~ 55%
Start-up Time	: 5ms Max.
Phase Jitter (12kHz ~ 20MHz)	: 1ps Max.
Aging (at 25°C)	: $\pm 3$ ppm/Year Max.

### Diagram



#### PAD Function

1. Enable Control
2. GND
3. Out
4. VDD

Dimensions : Millimetres

[www.element14.com](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)



# Crystal Oscillator

## SMD 2520 (2.5mm × 2mm × 0.8mm)



**Part Number Table**

Description	Part Number
Crystal Oscillator, 2520, 4MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-4.00-2.5-50-C
Crystal Oscillator, 2520, 5MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-5.00-2.5-50-C
Crystal Oscillator, 2520, 7.3728MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-7.3728-2.5-50-C
Crystal Oscillator, 2520, 12.288MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-12.288-2.5-50-C
Crystal Oscillator, 2520, 13MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-13.00-2.5-50-C
Crystal Oscillator, 2520, 14.31818MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-14.31818-2.5-50-C
Crystal Oscillator, 2520, 14.7456MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-14.7456-2.5-50-C
Crystal Oscillator, 2520, 19.2MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-19.20-2.5-50-C
Crystal Oscillator, 2520, 22.579MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-22.579-2.5-50-C
Crystal Oscillator, 2520, 24MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-24.00-2.5-50-C
Crystal Oscillator, 2520, 24.576MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-24.57600-2.5-50-C
Crystal Oscillator, 2520, 28.63636MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-28.63636-2.5-50-C
Crystal Oscillator, 2520, 36MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-36.00-2.5-50-C
Crystal Oscillator, 2520, 38.4MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-38.4-2.5-50-C
Crystal Oscillator, 2520, 40MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-40.00-2.5-50-C
Crystal Oscillator, 2520, 48MHz, 2.5V, ± 50ppm, -40 ~ +85°C, 15pF	MCSJK-2N-48.00-2.5-50-C

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