

## Quartz Crystal Units

**N57**

[ 7.0 × 5.0 × 1.0 mm ]

SMD Type

Oscillation Mode

Fund. /3rd O.T.

Tolerance

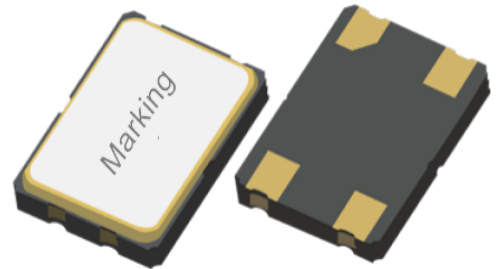
±10ppm ~ ±50ppm

Frequency Range

6MHz~160MHz

### Features

1. Small size, SMD metal package, size: 7.0 × 5.0 × 1.0 mm
2. Super precision and frequency stability.
3. Excellent heat resistance and environmental characteristics, reduce electromagnetic interference.
4. Reel tape packaging, can be used for automatic installation and reflow soldering.
5. Green environmental products, through the RoHS and PB Free certification.
6. Wide frequency output range 6MHz ~ 160MHz.
7. SMD 7050 chip crystal oscillator is mainly used in wireless communication, network communication, computer and computer peripheral, internet of things, automobile electronics, security, industrial system, home theater, audio HIFI and other electronic products.



### Standard Specifications

Item / Type	<b>N57 (7.0 × 5.0 × 1.0 mm)</b>
Frequency Range	6~160 MHz(Fund. /3rd )
Load Capacitance	3pF~32pF, or specify
Drive Level	100 μW typical (500 μW max.)
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm, ±30ppm, or specify
Aging	±5ppm / Year (max.)
Storage Temperature Range	-55°C~+125°C

### ESR (Equivalent Series Resistance)

Fundamental		3rd Overtone	
Frequency Range	E.S.R	Frequency Range	E.S.R
6~10MHz	100 Ω max.	30~80MHz	80 Ω max.
10~12MHz	60 Ω max.	80~100MHz	90 Ω max
12~30MHz	50 Ω max.	100~160MHz	100 Ω max

### Frequency stability Vs Operating temperature range

Temp. (°C)	ppm						
	±5	±10	±15	±20	±25	±30	±50
-10~+60	○	○	○	○	○	○	○
-20~+70	▲	○	○	○	○	○	○
-40~+85	×	▲	○	○	○	○	○

▲: Conditional

○: Available

×: Not available

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Outline Dimensions (Unit: mm)

