

SMD MHz Quartz Crystal Resonator

6S-Series (6035)



■ Features

- Size (L x W) 6.0 x 3.5, Height (Max.) 1.20 mm

■ Applications

- Digital Electronics, Consumer Products
- Mobile Communications
- Bluetooth, Wireless LAN



■ General Specifications

| # | Items | Parameters |
|----|---|-----------------------------|
| 1 | Frequency range | 10 to 60MHz |
| 2 | Oscillation mode | Fundamental |
| 3 | Frequency tolerance at 25°C | ±10, ±15, ±20, ±30, ±50 ppm |
| 4 | Frequency stability Vs. operating temperature range | See below Table 1 |
| 5 | Equivalent series resistance | See below Table 2 |
| 6 | Drive level | 10, 100, 200 μW or specify |
| 7 | Insulation resistance | 500 MΩ Min. at DC 100V |
| 8 | Load capacitance | 8, 10, 12 pF or specify |
| 9 | Shunt capacitance (C0) | 3 pF Max or specify |
| 10 | Aging at 25°C | ±3 ppm / year or specify |

■ Tab. 1: Frequency Stability Vs. Operating Temperature Range

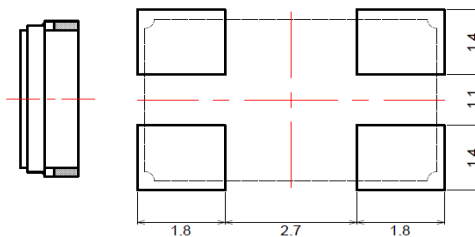
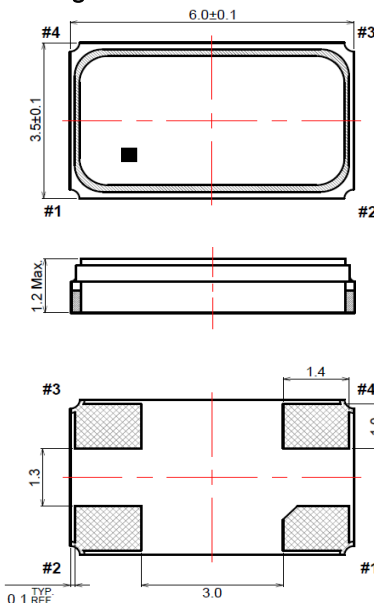
| Temp. | (ppm) | | |
|---------------|-------|-----|-----|
| | ±15 | ±20 | ±50 |
| -40 to +85 °C | ● | ● | ● |

■ Tab. 2: Equivalent Series Resistance

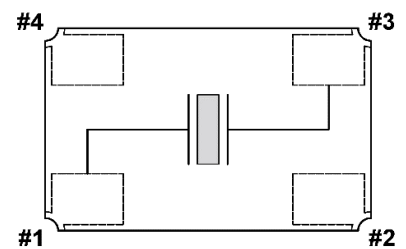
| Frequency (MHz) | ESR _{MAX} (Ω) | Oscillation mode |
|-----------------|------------------------|------------------|
| 10 to 20 | 60 | Fundamental |
| 20 to 40 | 40 | |
| 40 to 60 | 20 | |

Note: The mark "●" denotes our achieved level

■ Package Dimensions & Recommended Land Pattern (Unit: mm)



■ Pad Functions



| Pad Connections | |
|-----------------|----------|
| 1 | In / Out |
| 2 | Ground |
| 3 | Out / In |
| 4 | Ground |

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