SMX-6S

Miniature SMD Crystal

Features
- Applications: telecommunications, automotive, medical, audio
- Super small package (2.5 x 2.0 x 0.55 mm)
- Wide frequency range: 16 to 54 MHz
- High shock and vibrational resistivity
- Reflow soldering @ 260 °C

Parameter | Specification
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Frequency range | 12 ~ 66 MHz fundamental
Mode of oscillation | AT-cut
Standard frequencies | 16.00, 16.368, 16.384, 18.432, 19.2, 22.184, 20.0, 24.0, 24.576, 26.0, 32.0, 40.0, 44.0, 48.0, 52.0 & 54.0 MHz
Frequency tolerance | ±10 ~ ±50 ppm @ +25 °C
Frequency stability | ±10 ~ ±50 ppm vs. operating temperature range
Aging | ±2 ppm 1st year
Load capacitance | series or parallel resonance (CL = 8 ~ 32 pF)
Equivalent series resistance (ESR) | < 80 Ω @ 16 MHz
| < 35 Ω @ 52 MHz
Drive level | 10 ~ 100 µW
Operating temperature range | -20 ~ +70 °C commercial application
| -40 ~ +85 °C industrial application
| -40 ~ +125 °C automotive & avionic application
Storage temperature range | -55 ~ +125 °C
Packaging unit | tape & reel 1’000 or 3’000 pieces
Customer specifications on request

Pin function | Example for soldering pattern
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# 1 crystal connection | # 2 GND
# 3 crystal connection | # 4 GND

Do not design any conductive path between the pattern

Example for IR reflow soldering temperature

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2002/95/EC RoHS compliant