



TYPICAL APPLICATION

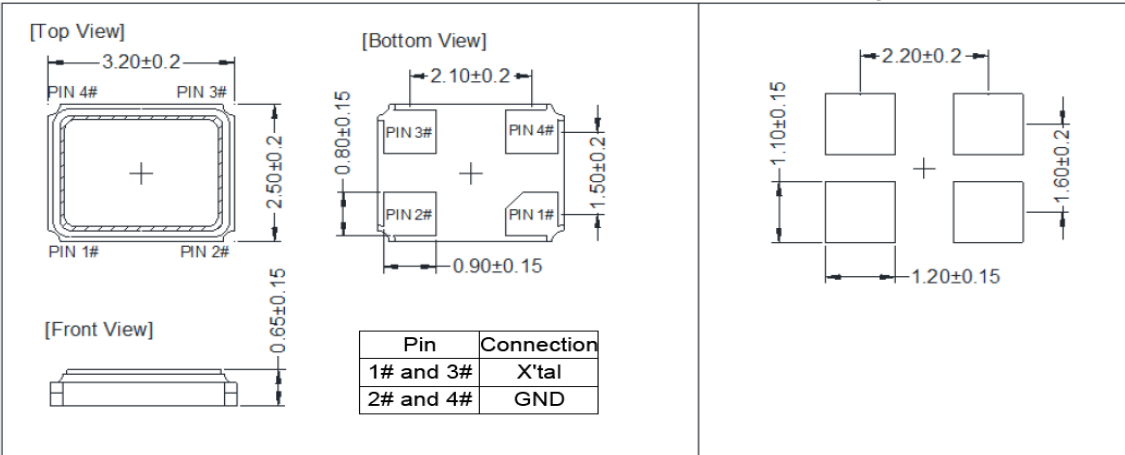
- Bluetooth, Mobile Phone, GPS
- Wireless LAN, 4G/LTE
- Hard Disk



DIMENSIONS (mm)

Product Dimensions

Solder Pad Layout Dimensions



ELECTRICAL SPECIFICATION

| PARAMETERS | XMD-SMD3225 | | | UNITS | CONDITIONS |
|------------------------------|---------------------|-----|-----|-------|--------------|
| | MIN | TYP | MAX | | |
| Nominal Frequency | 8 | | 54 | MHz | - |
| Mode of vibration | Fundamental | | | | - |
| Frequency Tolerance | 10 20 30 or specify | | | ppm | @+25°C±3°C |
| Frequency Stability | Table 2 | | | ppm | Ref 25°C±3°C |
| Load Capacitance | 8pF 10pF or specify | | | pF | - |
| Shunt Capacitance | | | 2 | pF | @+25°C±3°C |
| Equivalent Series Resistance | Table 1 | | | Ω | - |
| Drive Level | | 10 | 200 | μW | - |
| Operating Temperature Range | -40 | | 125 | °C | - |
| Storage Temperature | -55 | | 125 | °C | - |
| Aging (First Year) | -3 | | 3 | ppm | - |
| Insulation Resistan | 500 | | | MΩ | @DC100V |

EQUIVALENT SERIES RESISTANCE (Table 1)

| Frequency Range | MODE | E.S.R(Ω) |
|--------------------|-------------|----------|
| 8MHz ≤ F0 ≤ 10MHz | Fundamental | 200 |
| 10MHz < F0 < 16MHz | Fundamental | 100 |
| 16MHz ≤ F0 ≤ 20MHz | Fundamental | 60 |
| 20MHz < F0 ≤ 32MHz | Fundamental | 40 |
| 32MHz < F0 ≤ 54MHz | Fundamental | 30 |

FREQ. STABILITY vs. TEMP. RANGE (Table 2)

| Temp. °C | ppm | | | | |
|-----------|-----|-----|-----|-----|-----|
| | ±10 | ±15 | ±20 | ±30 | ±50 |
| -10 ~ 60 | ○ | ○ | ○ | ○ | ○ |
| -20 ~ 70 | ○ | ○ | ○ | ○ | ○ |
| -40 ~ 85 | X | △ | ○ | ○ | ○ |
| -40 ~ 105 | X | X | △ | ○ | ○ |
| -40 ~ 125 | X | X | X | X | ○ |

○: Available △: Conditional X: Not available

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