

TITLE

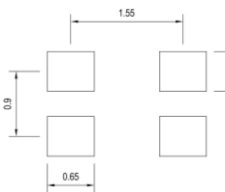
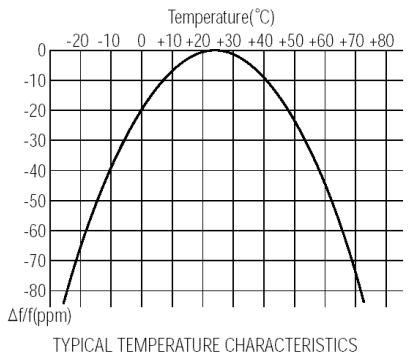
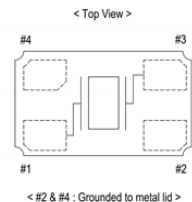
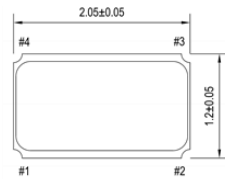
CRYSTAL SPECIFICATIONS

DATE

June 26, 2019

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|--|---|
| 1. Part No. : | 212M327B(4P), 212M327-6B(4P), 212M327-7B(4P), 212M327-9B(4P) |
| 2. Nominal frequency (F) : | 32.768 kHz |
| 3. Package type : | 212SMX(4P) |
| 4. Frequency tolerance (df/F) : | ±20 ppm (±0.002%) at +25°C ±3°C |
| 5. Load capacitance (CL) : | 12.5 pF ± 1.0 pF ... 212M327B(4P)
6.0 pF ± 1.0 pF ... 212M327-6B(4P)
7.0 pF ± 1.0 pF ... 212M327-7B(4P)
9.0 pF ± 1.0 pF ... 212M327-9B(4P) |
| 6. Series resistance (Rs) : | 75 k ohms max. |
| 7. Drive level (P) : | 0.1 μW, Typical (1.0 μW max.) |
| 8. Quality factor (Q) : | 10000, Typical |
| 9. Turnover temperature (TT) : | +25°C ±5°C |
| 10. Parabolic curvature constant (K) : | -0.033 ppm/°C ² , Typical (-0.04 ppm/°C ² max.) |
| 11. Shunt capacitance (C0) : | 0.8 pF, Typical(1.5 pF max.) |
| 12. Capacitance ratio (C0/C1) : | 200, Typical |
| 13. Motional capacitance (C1) : | 0.0040 pF, Typical |
| 14. Aging (df/F) : | First year : ±3 ppm max. at +25°C ±3°C |
| 15. Operating temperature range (TO) : | -40°C to +85°C |
| 16. Storage temperature range (TS) : | -55°C to +125°C |
| 17. Insulation resistance: | 500M ohms at 100V DC |
| 18. Reflow soldering condition : | 10 seconds at +260°C ± 10°C (2 times max) |
| 19. Shock (df/F) : | ±5 ppm max. |
| 20. Vibration (df/F) : | ±5 ppm max. |
| 21. Crystal test equipment : | 140B (Saunders, U. S. A) |
| 22. Outline dimentions : | See below |

212SMX(4P)
Directive 2002/95/EC
Pb-free



mm

SMI

ITEM.

QUARTZ CRYSTAL UNITS

No.

SX-6473A