

MHz Crystal (SMD)

2.5 M1210

SMD AT cut crystal unit M1210 series

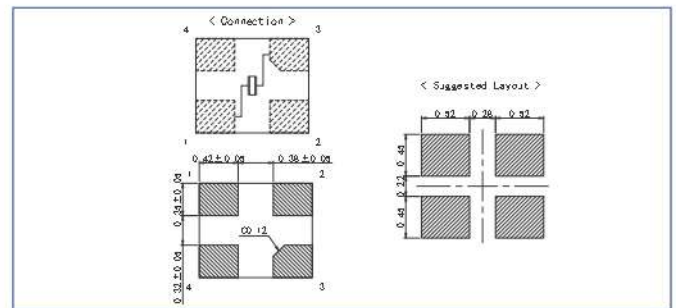
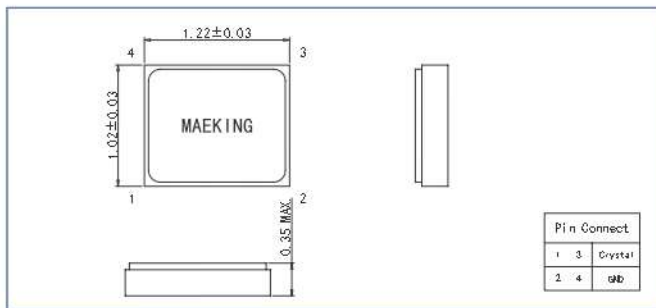
FEATURES

- Ultra-small size: 1.2 × 1.0 × 0.3 mm
- Sealing with gold-tin preform ceramic package
- High stability and low aging
- Pb Free and RoHS compliant

TYPICAL APPLICATION

- Small wireless device, Wireless module, IoT, Wearable device, TWS
- Health care equipment, Small consumer equipment etc

DIMENSIONS



ELECTRICAL SPECIFICATION

Item/Type	M1210
Frequency Range	32 ~ 48MHz
Frequency Tolerance (at 25°C)	±10 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10 ppm, or specify
Operating Temperature Range	-10 ~ +60°C
Shunt Capacitance (C ₀)	3.0pF Max.
Drive Level	100μW (typical)
Load Capacitance	Series, 8pF, 10pF, or specify
Aging (at 25°C)	±3 ppm/year Max.
Storage Temperature Range	-40 ~ +125°C

EQUIVALENT SERIES RESISTANCE(ESR)

Frequency	Resistance
32MHz ≤ F ₀ ≤ 48MHz	80Ω Max.

FREQ. STABILITY vs. TEMP. RANGE

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

ppm Temp.(°C)	±15	±20	±30	±50
-40 ~ +105	△	○	○	○
-40 ~ +125	×	×	△	○

*o: Available △: Condition X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.