

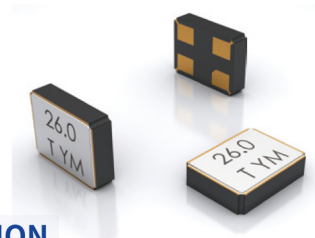
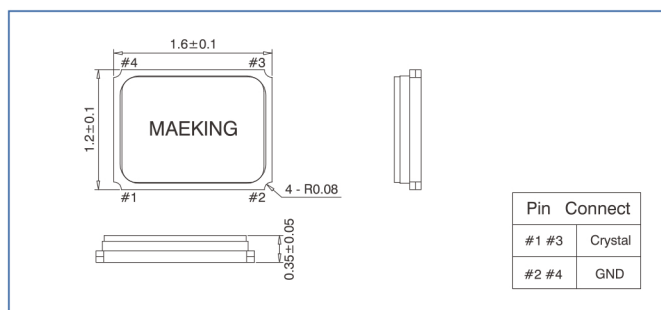
2.4 M1612

SMD AT cut crystal unit M1612 series

FEATURES

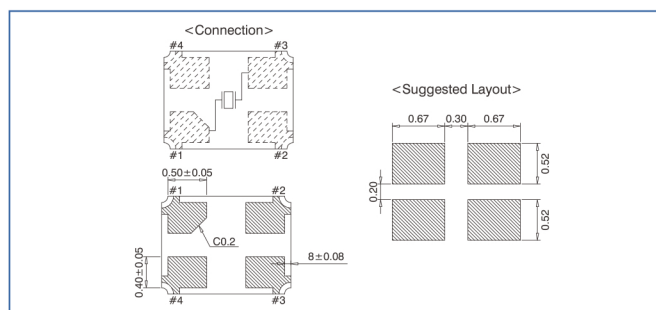
- Ultra-small size: 1.6 × 1.2 × 0.35 mm
- Ceramic seam welding package
- High stability and low aging
- Pb Free and RoHS compliant

DIMENSIONS



TYPICAL APPLICATION

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



ELECTRICAL SPECIFICATION

Item/Type	M1612
Frequency Range	24 ~ 96MHz
Frequency Tolerance (at 25°C)	±10 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±15ppm, or specify
Operating Temperature Range	-40 ~ +85°C
Shunt Capacitance (C ₀)	3pF Max.
Drive Level	10μW (100μW Max.)
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
24MHz ≤ F ₀ < 32MHz	120 Ω Max.
32MHz ≤ F ₀ < 52MHz	80Ω Max.
52MHz ≤ F ₀ ≤ 96MHz	50 Ω Max.

FREQ. STABILITY vs. TEMP. RANGE

ppm Temp.(°C)	±5	±10	±15	ppm Temp.(°C)	±15	±20	±30	±50
-10 ~ +60	△	○	○	-40 ~ +105	△	○	○	○
-20 ~ +70	×	△	○	-40 ~ +125	×	×	×	○
-40 ~ +85	×	×	△					

*○: Available △: Condition X: Not available

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