

MHz Crystal (SMD)

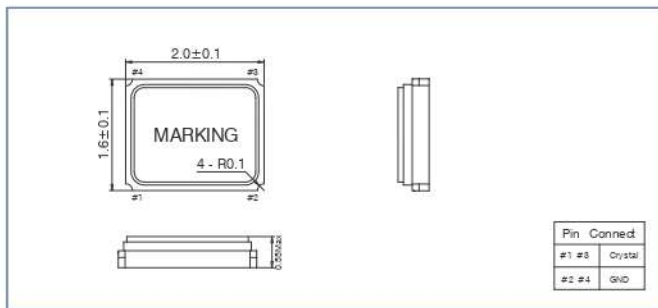
2.3 M2016

Metal Can Type Crystals M2016 Series

FEATURES

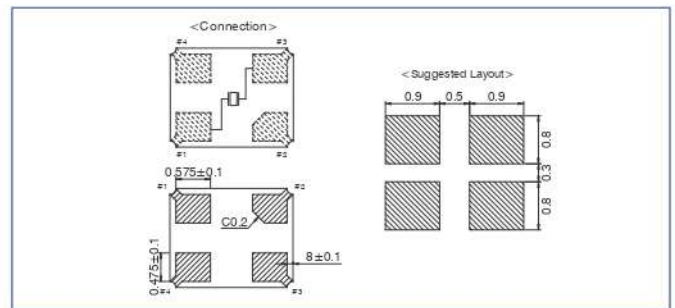
- Reflow resistance type crystal units
- Higher frequency pull ability and lower equivalent series resistance
- Lower cost and highly mass production capability
- RoHS Compliant/Pb Free

DIMENSIONS



TYPICAL APPLICATION

- The best choice of Notebook Computer
- TV, STB, LCDM and Cable Modem



ELECTRICAL SPECIFICATION

Item/Type	M2016
Frequency Range	12 ~ 96 MHz
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, or specify
Shunt Capacitance (C_0)	3pF Max.
Drive Level	10μW (100μW Max.)
Load Capacitance	Series, 6pF, 12pF, 16pF, or specify
Aging (at 25°C)	±3 ppm/year Max.
Storage Temperature Range	-40 ~ +125°C

EQUIVALENT SERIES RESISTANCE(ESR)

Frequency	Resistance
12MHz ≤ F_0 < 16MHz	300 Ω Max.
16MHz ≤ F_0 < 20MHz	120 Ω Max.
20MHz ≤ F_0 < 30MHz	80 Ω Max.
30MHz ≤ F_0 < 60MHz	60 Ω Max.
60MHz ≤ F_0 < 96MHz	40 Ω 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.