

MJ2

[5.0 * 3.2 * 0.9 mm]

Surface Mount Crystals

Fund.

3rd O.T.

Min.

12 MHz

Max.

125 MHz

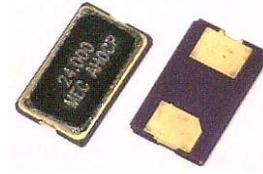


RoHS Compliance

Features

Specifications

- The entire package can be grounded via the top metal lid and the two bottom pads
- Frequency tolerance as tight as +/-5ppm is available.



General Specifications

Item / Type	MJ2 series (5.0 * 3.2 * 0.9 mm)
Frequency Range & Crystal Cut	12.000 ~ 50.000 MHz , AT-cut , Fundamental Mode (see Table 1)
	40.000 ~ 125.000 MHz , AT-cut , 3rd overtone (see Table 1)
	NOTE : Frequencies between 40 and 50 MHz can be either AT fundamental or AT 3rd overtone. Please add " AF " after the frequency on the part number for an AT-cut fundamental mode crystal and " A3 " for an AT-Cut 3rd overtone crystal. For example: MJ-40.000AF-20P.
Load Capacitance	Series or Parallel (8 to 32 pF) resonance
Drive Level	10μ W typical (100μ W max.)
Frequency Tolerance	± 5 ppm , ± 10 ppm , ± 20 ppm or ± 30 ppm at 25°C
Frequency Stability	See Table 2
Aging	ΔF / F : ±3 ppm / year (max.)
Storage Temperature Range	- 50°C to 105°C

Table 1

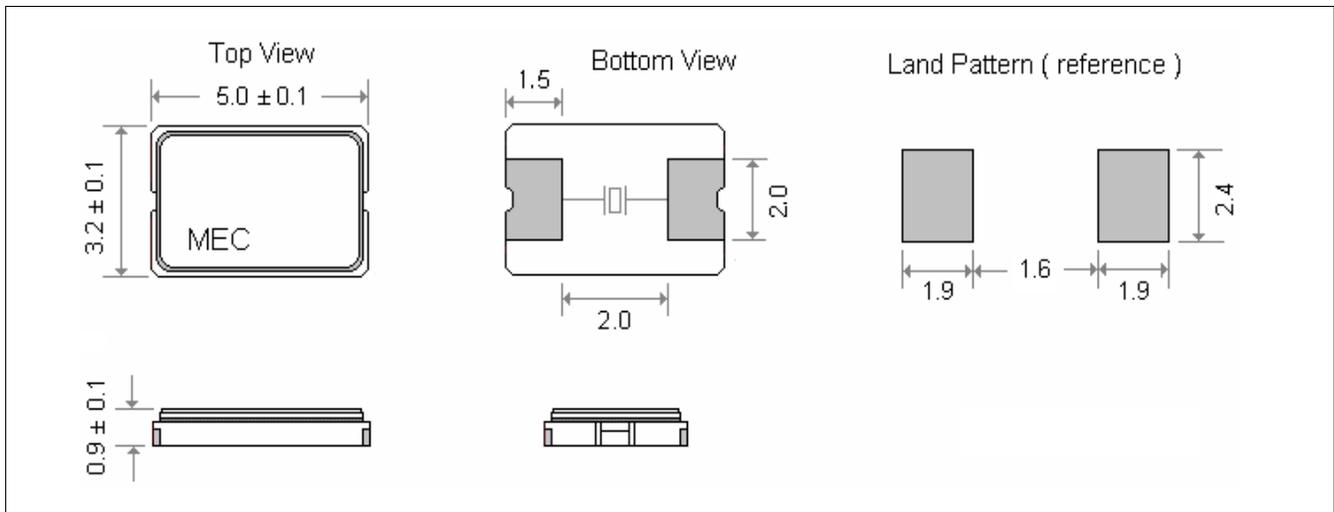
ESR (Equivalent Series Resistance)		
Frequency Range	Oscillator Mode	E. S. R.
12.00 ~ 50.000 MHz	AT-Cut , Fund. Mode	50 Ω max
40.000 ~ 125.000 MHz	AT-Cut , 3rd Overtone	80 Ω max

Table 2

Frequency stability vs Operating temperature range							
Stability code	Temp. (°C) \ ppm	± 5	± 10	± 15	± 20	± 25	± 30
X	-10 to 60°C	○	○	○	○	○	○
Y	-20 to 70°C	▲	○	○	○	○	○
I	-40 to 85°C			○	○	○	○

○ : available ; ▲ : contact Mercury

Outline Dimensions (Unit : mm)



Mercury www.mercury-crystal.com

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