

# MF2

[ 6.0 \* 3.5 \* 1.0 mm ]

Surface Mount Crystals

Fund.

3rd O.T.

Min.  
8MHz

Max.  
125MHz

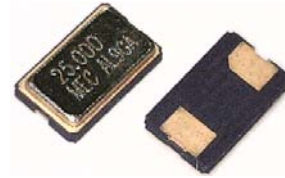


RoHS Compliance

## Features

### Specifications

- The entire package can be grounded via the top metal lid and the two bottom pads.
- This tight tolerance and tight stability crystal is ideal for telecommunications.
- This crystal package will withstand solder reflow .



## General Specifications

Item / Type	MF2 series ( 6.0 * 3.5 * 1.0 mm )
Frequency Range & Crystal Cut	8.000 ~ 50.000 MHz , AT-cut , Fundamental Mode ( see Table 1 ) 30.000 ~ 125.000 MHz , AT-cut , 3rd overtone ( see Table 1 )
Load Capacitance	Series or Parallel ( 8 to 32 pF ) resonance
Drive Level	10μ W typica ( 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

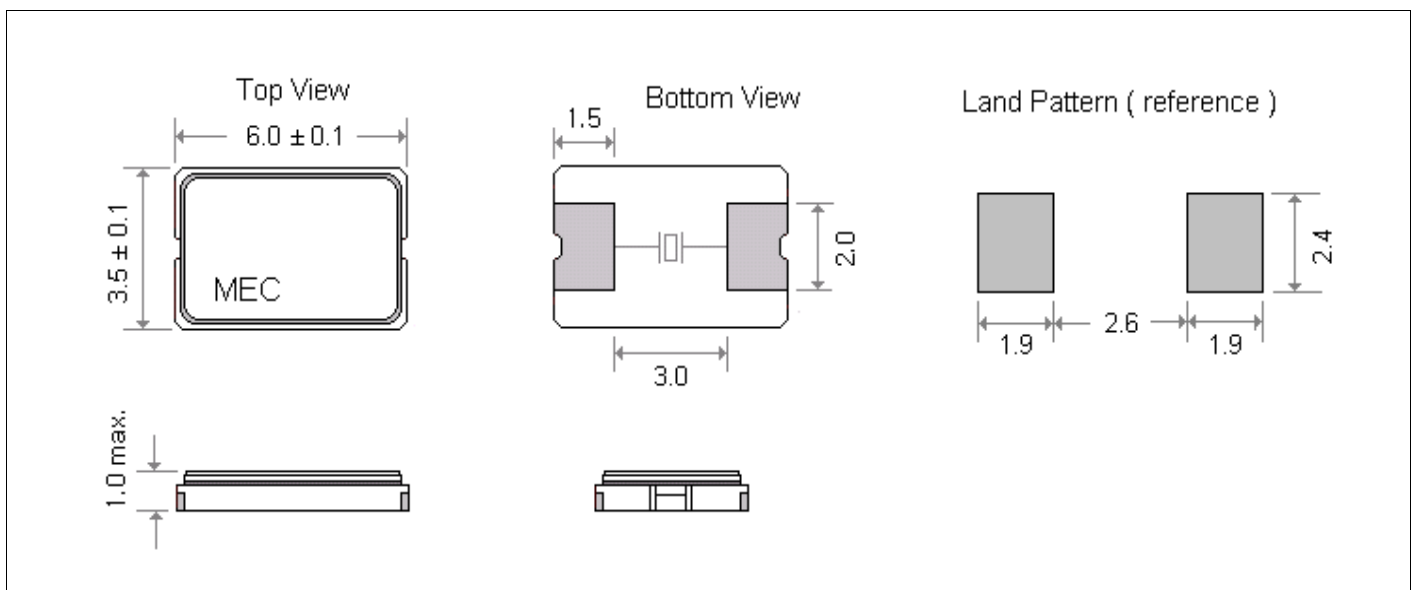
ESR ( Equivalent Series Resistance )					
Freq.(MHz)	Osc. Mode	E.S.R.	Freq.(MHz)	Osc. Mode	E.S.R.
8.0 ~ 12.0	AT , Fund.	80 Ω	30.0~ 40.0	AT , 3rd	100 Ω
12.1 ~ 16.0	AT , Fund.	60 Ω	40.1~ 50.0	AT , 3rd	80 Ω
16.1~ 50.0	AT , Fund.	40 Ω	50.1~ 125.0	AT , 3rd	50 Ω

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](http://www.mercury-crystal.com)