

actual size

# HC216M4

# HOORAY

## 4 Pad Version · 2.0 x 1.6 mm

- ± 10 ppm type available
- EMI shielding possible by grounded lid
- reflow soldering temperature: 260 °C max.
- ceramic / metal package



### General Data

type	HC216M4
frequency range	20.0 ~ 54.0 MHz (fund. AT-cut)
frequency tolerance at 25 °C	± 10 ppm / ± 20 ppm / ± 30 ppm
load capacitance $C_L$	12 pF standard (option: 8 pF ~ 30 pF / series)
shunt capacitance $C_0$	< 5 pF
storage temperature	-40 °C ~ +90 °C
drive level max.	100 µW (10 µW recommended)
aging	< ± 3 ppm first year (< ± 1 ppm for tol. ± 10 ppm)

### ESR (series resistance $R_s$ )

frequency in MHz	vibration mode	ESR max. in $\Omega$
20.0 ~ 23.999	fund. - AT	100
24.0 ~ 29.999	fund. - AT	100
30.0 ~ 35.999	fund. - AT	80
36.0 ~ 50.000	fund. - AT	80

### Frequency Stability vs. Temperature

		± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm
-20 °C ~ +70 °C	STD.	○	○	●	○
-40 °C ~ +85 °C	T1		○	○	○

● standard  
 ○ available

### Marking

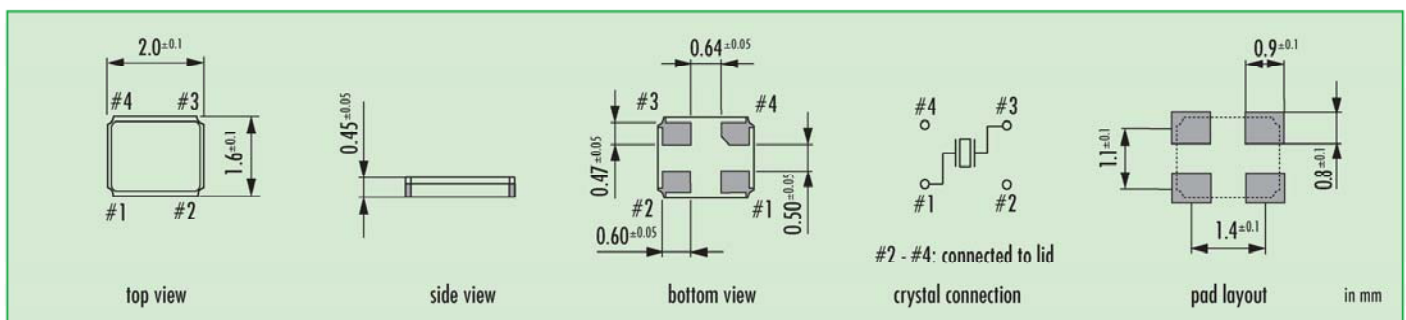
frequency / date code

date code: year/month

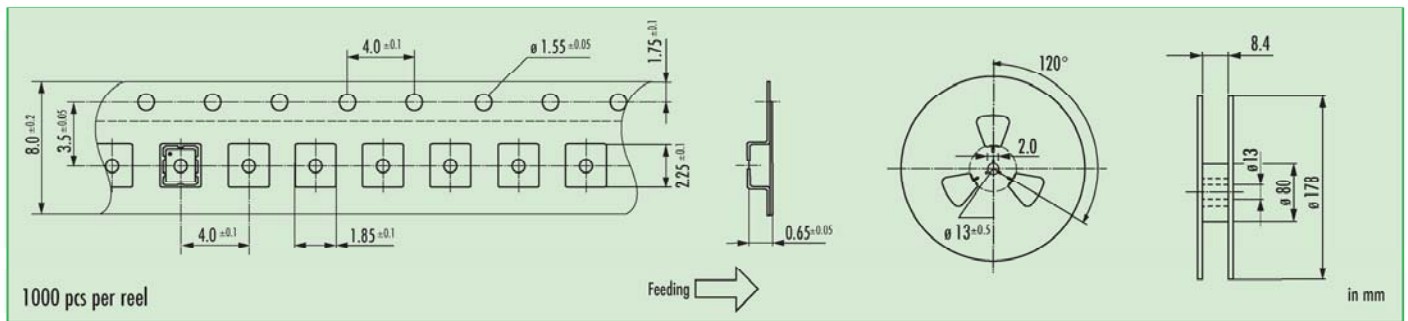
example: A = 2009 / January

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M

### Dimensions



## Taping Specification



## Reflow Soldering Profile

