

STANDARD HC49/SMD4 CRYSTAL (13.0 x 4.7mm)

FEATURES:

- AT OR BT CUT AVAILABLE
- RESISTANCE WELD SEAL
- TIGHT TOLERANCE / STABILITY



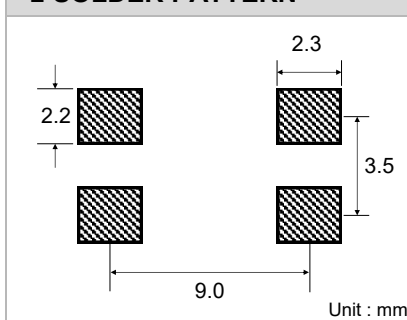
■ SPECIFICATION

FREQUENCY RANGE	3.500MHz ~ 100.000MHz
FREQUENCY TOLERANCE @ 25°C	±5ppm ~ ±50ppm (See P/N guide for options)
FREQUENCY STABILITY	±10ppm ~ ±100ppm (See P/N guide for options)
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C (See P/N guide for options)
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C
LOAD CAPACITANCE	4pF min.
SHUNT CAPACITANCE	7pF max.
INSULATION RESISTANCE	500MΩ min. @ 100V _{DC}
DRIVE LEVEL	100μW max
AGING	±3.0ppm / 1 st yr. max.

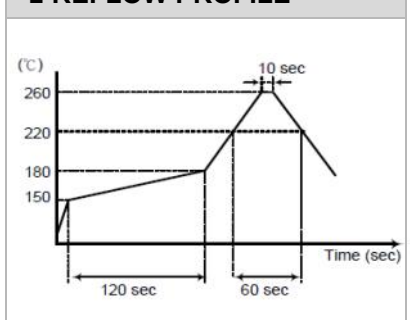
■ FREQ VS. ESR

Frequency (MHz)	Mode	ESR (Ω) Max
3.500 ≤ f < 3.686	AT Fundamental	200
3.687 ≤ f < 4.999	AT Fundamental	150
5.000 ≤ f < 9.999	AT Fundamental	80
10.000 ≤ f < 13.999	AT Fundamental	40
14.000 ≤ f < 30.000	AT Fundamental	30
27.000 ≤ f < 29.999	3 rd Overtone	100
30.000 ≤ f < 49.999	3 rd Overtone	80
50.000 ≤ f < 100.000	3 rd Overtone	60

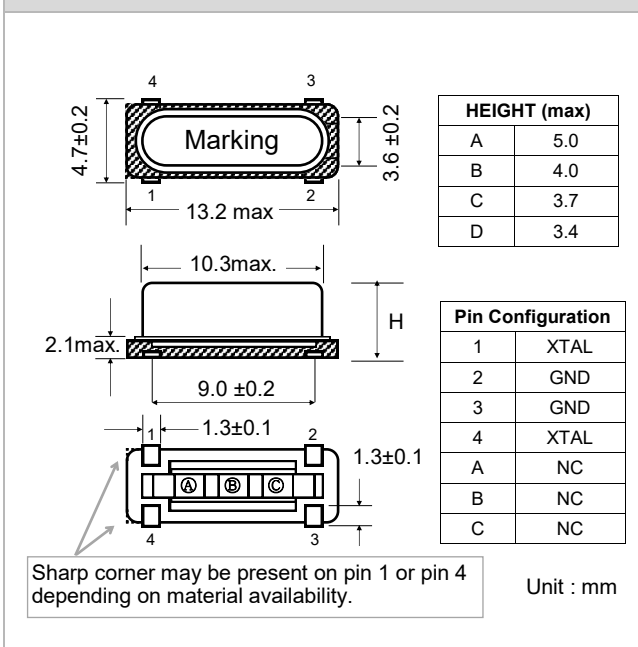
■ SOLDER PATTERN



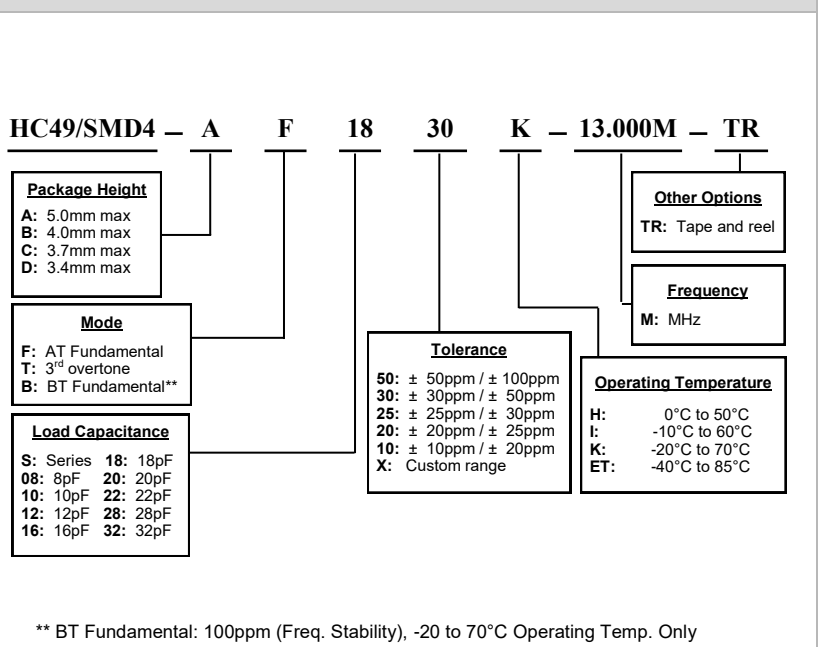
■ REFLOW PROFILE



■ PACKAGE DIMENSIONS



■ PART NUMBERING GUIDE



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