PETERMANN TECHNIK
Time & Frequency Components

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FEATURES

- CHEAPEST SMD-WATCH CRYSTAL
- HIGH RELIABILITY FOR LOW COST
- OPERATING TEMPERATURE RANGE OF -40/+85°C
- AUTOMOTIVE VERSION AVAILABLE (AECQ200)

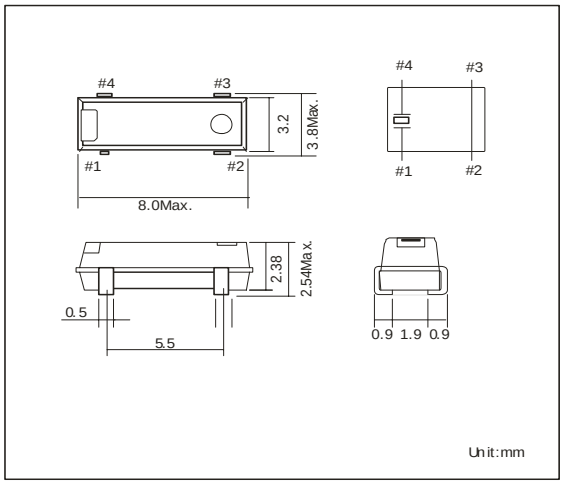
SMD-WATCH-CRYSTAL SERIES	M8208
PACKAGE DIMENSIONS	see drawing
FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	+-20 ppm (standard) / +-10 ppm (option)
LOAD CAPACITANCE	12.5 pF (standard) / 6 pF, 7 pF and 9 pF available on demand
SERIES RESISTANCE	50 kΩ max.
OPERATING TEMPERATURE RANGE	-40/+85°C
STORAGE TEMPERATURE RANGE	-55/+125°C
TWO DIMENSIONAL TEMPERATURE CONSTANT	-0.04 PPM/°C²
TURNOVER TEMPERATURE	+25°C +-5°C
DRIVE LEVEL	1.0 µW max.
SHUNT CAPACITANCE C0	0.9 pF typical
MOTIONAL CAPACITANCE C1	1.8 fF typical
AGING	+-3 ppm max. per year
DELIVERY FORM	Tape and Reel (1.000 pcs per reel)
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION	

PART NUMBERING SYSTEM

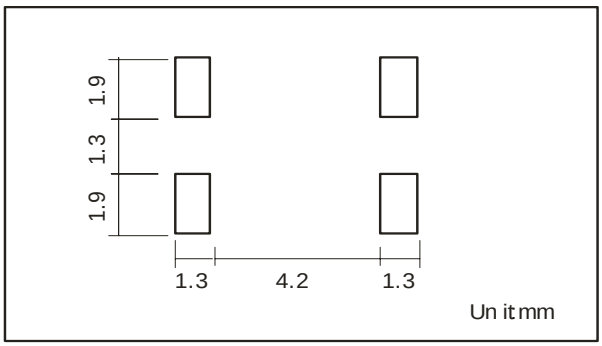
EXAMPLE	M8208 32.768 kHz +-20 ppm -40/+85°C 12.5pF

PACKAGE	M8208
FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	REQUIRED VALUE
TEMPERATURE RANGE	-40/+85°C standard
LOAD CAPACITANCE	REQUIRED VALUE

OUTLINE DRAWING



RECOMMENDED LAND PATTERN



Specification dated November 2009