

SMD WATCH CRYSTAL SERIES M8208

FEATURES

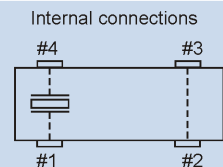
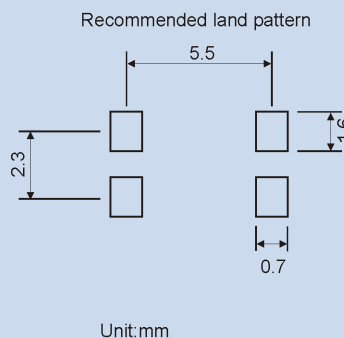
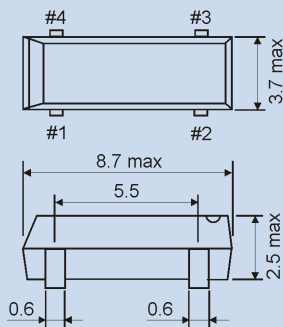
RoHS-2 2011/65/EU
 compliant

- Worldwide cheapest available SMD crystal with 32.768 kHz
- High performance for low cost
- ± 10 ppm frequency tolerance at 25°C deliverable on request
- Standard operating temperature range of -40/+85°C
- Excellent clock signal generator for CPU's

GENERAL DATA

SMD-CRYSTAL SERIES	M8208
NUMBER OF SOLDER PADS	4
PAD CONNECTION	Pad # 1 + 4 = XTAL Pad # 2 + 3 = do not connect / not connect to ground
FREQUENCY RANGE	32.768 kHz
FREQUENCY TOLERANCES AT 25°C	± 20 ppm (standard) / ± 10 ppm ~ ± 100 ppm (option)
LOAD CAPACITANCE (C _L)	12.5 pF (standard) 6pF, 7pF, 8pF and 9pF available on request
WORKING TEMPERATURE RANGES	-40/+85°C
RESONANCE RESISTANCE	50 kΩ max.
SHUNT CAPACITANCE C ₀	1 ~ 1.25 pF typical
TURNOVER TEMPERATURE	+25°C $\pm 5^\circ\text{C}$
PARABOLIC COEFFICIENT	-0.035 ppm/°C ²
DRIVE LEVEL	1.0 μW max. (other parameters deliverable on request)
AGING	± 5 ppm max. per year
INSULATION RESISTANCE	>500 MΩ DC/100V $\pm 10\%$
STORAGE TEMPERATURE	-40°+85°C
DELIVERY FORM	Tape and Reel (1.000 ~ 3.000 pcs per reel)
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION	

DIMENSIONS



Pad Connection:
 #1 = Crystal
 #2 = N/C
 #3 = N/C
 #4 = Crystal
 Do not connect pad #2 + #3 to GND.
 This is absolutely forbidden.

CRYSTALS

OSCILLATORS

CERAMIC RESONATORS



Premium Quality by
PETERMANN-TECHNIK

CERAMIC FILTERS

SAW COMPONENTS

Spec.01 • REV.00 • June 2013

ORDERING INFORMATION

Series

M8208

Frequency

32.768 kHz

Frequency
Stability at
25°C

20

Temperature
Range

-40+85°C

Load
Capacitance

12.5 pF

CRYSTALS
OSCILLATORS
CERAMIC RESONATORS



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