

PETERMANN-TECHNIK GmbH Lechwiesenstr. 13 • D-86899 • Landsberg am Lech Tel: +49/8191/305395 • Fax: +49/8191/305397 info@petermann-technik.com • www.petermann-technik.com



SMD WATCH CRYSTAL 32.768 kHz

SERIES M8208 (4 PAD HOUSING 8.7x3.7MM)

FEATURES

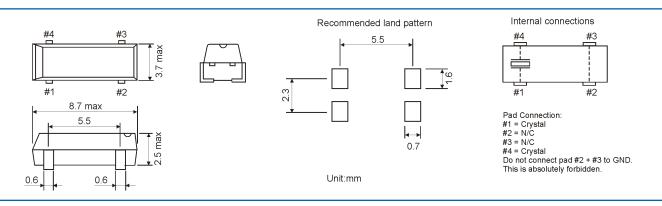
- + Worldwide cheapest available SMD-Watch-Crystal
- + High performance for low cost
- + ±10 ppm frequency tolerance at 25°C deliverable on request
- + Standard operating temperature range of -40/+85°C
- + Excellent clock generator for CPU's, Wireless, Mobile Comm., etc.



ROHS-2 2011/65/EU COMPLIANT

PARAMETERS	PRODUCT FEATURES AND CONDITIONS
SMD-CRYSTAL SERIES	M8208
NUMBER OF SOLDER PADS	4
PAD CONNECTION	Pad # 1 + 4 = XTAL Pad # 2 + 3 = do not connected / not connect to ground
FREQUENCY RANGE	32.768 kHz
FREQUENCY TOLERANCES AT 25°C	± 20 ppm (standard) / ± 10 ppm ~ ± 100 ppm (option)
LOAD CAPACITANCE (CL)	12.5 pF (standard) 6,7,8 and 9pF available on request
WORKING TEMPERATURE RANGE	-40/+85°C
RESONANCE RESISTANCE	50 kΩ max.
SHUNT CAPACITANCE (C ₀)	1.0 ~ 1.25 pF typ.
TURNOVER TEMPERATURE	+25°C ±5°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 ±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

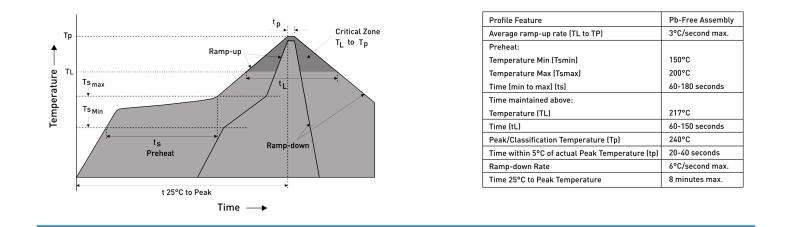




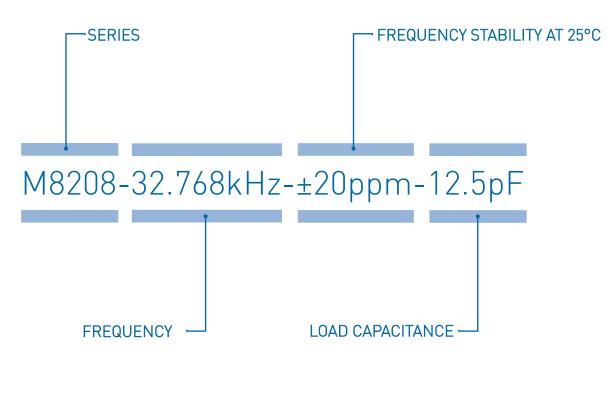
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REFLOW SOLDER PROFILE



ORDERING INFORMATION



EXAMPLE: M8208-32.768kHz-±20ppm-12.5pF PLEASE INDICATE YOUR REQUIRED PARAMETERS



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PREMIUM QUALITY BY PETERMANN-TECHNIK



OUR COMPANY IS CERTIFIED ACCORDING TO ISO 9001:2008 IN OC-TOBER 2013 BY THE DMSZ CERTIFIKATION GMBH.

THIS IS FOR YOU TO ENSURE THAT THE PRINCIPLES OF QUALITY MANAGEMENT ARE FULLY IMPLEMENTED IN OUR QUALITY MA-NAGEMENT SYSTEM AND QUALITY CONTROL METHODS ALSO DO-MINATE OUR QUALITY STANDARDS.

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