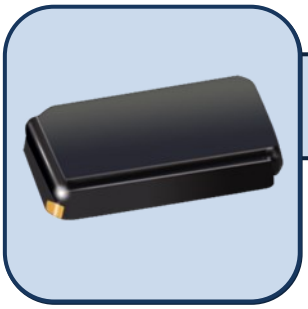
PETERMANN-TECHNIK GmbH
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SMD WATCH CRYSTAL SERIES M4115

FEATURES

- High reliability for low cost
- Ultra low profile
- Operating temperature range of -40/+85°C
- Excellent clock signal generatur for CPU´s

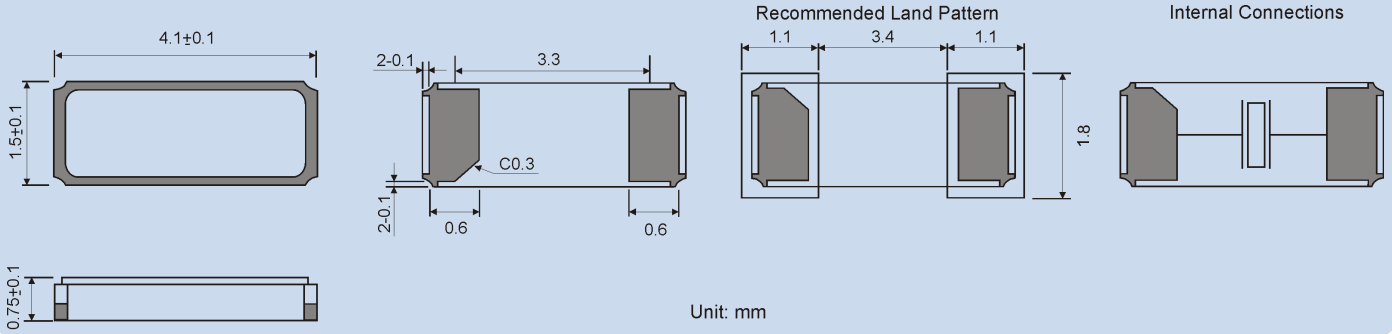
Pb free
RoHS-2 2011/65/EU
compliant

GENERAL DATA

SMD-CRYSTAL SERIES	M4115 (4.1x1.5x0.85mm)
NUMBER OF SOLDER PADS	2
FREQUENCY RANGE	32.768 kHz
FREQUENCY TOLERANCES AT 25°C	±20 ppm (standard) / ±10 ~ ±100 ppm (option)
LOAD CAPACITANCE (C_L)	12.5 pF (standard) 6,7,9 and 10pF available on request
WORKING TEMPERATURE RANGES	-40/+85°C
RESONANCE RESISTANCE	80 kΩ max.
SHUNT CAPACITANCE C0	1.3 pF typ.
TURNOVER TEMPERATURE	+25°C +-5°C
PARABOLIC COEFFICIENT	-0.04 ppm/°C²
DRIVE LEVEL	0.2 µW typical (1.0 µW max.)
AGING	±3 ppm max. per year
INSULATION RESISTANCE	>500 MΩ DC/100V ±10%
STORAGE TEMPERATURE	-55°/+125°C
DELIVERY FORM	Tape and Reel (3.000 pcs per reel)

OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION

DIMENSIONS



CRYSTALS

OSCILLATORS

CERAMIC RESONATORS

Premium Quality by PETERMANN-TECHNIK

CERAMIC FILTERS

SAW COMPONENTS

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ORDERING INFORMATION

Series	Frequency	Frequency Stability at 25°C	Temperature Range	Load Capacitance
M4115	32.768 kHz	20	-40+85°C	12.5 pF