

FEATURES

- HIGH RELIABILITY FOR LOW COST
- ULTRA LOW PROFILE
- OPERATING TEMPERATURE RANGE OF -40/+85°C
- EXCELLENT CLOCK SIGNAL GENERATOR FOR CPU'S

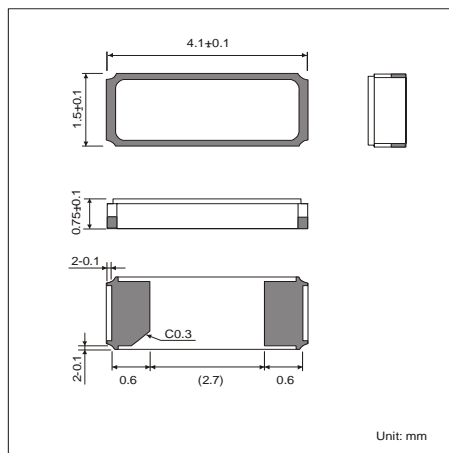


MINIATURE SMD-WATCH CRYSTAL SERIES	M4115
PACKAGE DIMENSIONS	see outline drawing
FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	+20 ppm standard / +10 ppm on request
LOAD CAPACITANCE	12.5 pF standard / 6 pF, 7 pF and 9 pF on demand available
SERIES RESISTANCE	70 kΩ max.
OPERATING TEMPERATURE RANGE	-40/+85°C
STORAGE TEMPERATURE RANGE	-55/+125°C
PARABOLIC COEFFICIENT	-0.04 ppm/°C ² max.
TURNOVER TEMPERATURE	+25°C +5°C
DRIVE LEVEL	0.5 μW max.
SHUNT CAPACITANCE C0	1.0 pF typical
MOTIONAL CAPACITANCE C1	3.4 fF typical
AGING	+3 ppm max. per year
DELIVERY FORM	Tape & Reel (1.000 pcs per reel)
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION	

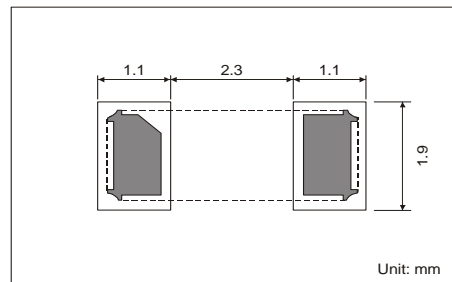
PART NUMBERING SYSTEM

EXAMPLE	M4115 32.768 kHz +20 PPM -40/+85 12.5PF
PACKAGE	M4115
FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	REQUIRED VALUE
TEMPERATURE RANGE	-40/+85°C standard temperature range
LOAD CAPACITANCE	REQUIRED VALUE

PACKAGE DIMENSIONS



RECOMMENDED LAYOUT



INTERNAL CONNECTION

