

## FEATURES

- HIGH RELIABILITY FOR LOW COST
- OPERATING TEMPERATURE RANGE OF -40/+85°C ~ -40/+125°C
- AUTOMOTIVE QUALIFIED AECQ200
- EXCELLENT CLOCK SIGNAL GENERATUR FOR CPU'S



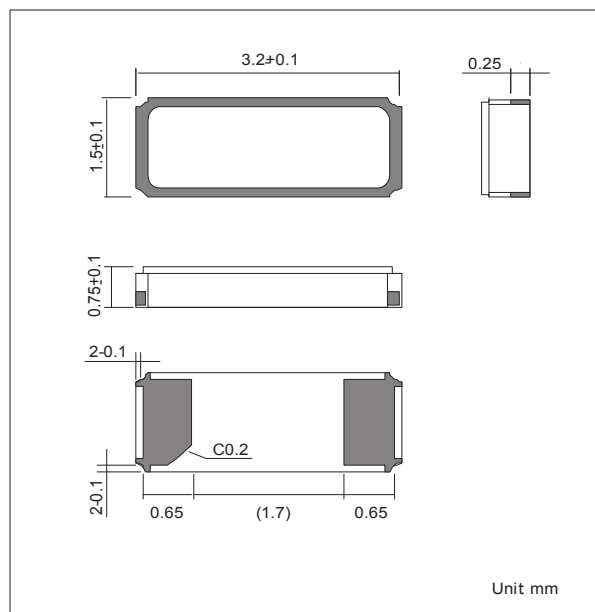
<b>ULTRA MINI SMD-WATCH CRYSTAL SERIES</b>	M3215
<b>PACKAGE DIMENSIONS</b>	3.2 x 1.5 x 0.8 mm
<b>FREQUENCY</b>	32.768 kHz
<b>FREQUENCY TOLERANCE AT 25°C</b>	+20 ppm (standard) / +10 ppm (optional)
<b>LOAD CAPACITANCE</b>	12.5 pF (standard) / 6 pF, 7 pF and 9 pF available on demand
<b>SERIES RESISTANCE</b>	80 kΩ max.
<b>OPERATING TEMPERATURE RANGE</b>	-40/+85°C
<b>STORAGE TEMPERATURE RANGE</b>	-55/+125°C
<b>PARABOLIC COEFFICIENT</b>	-0.04 ppm/°C <sup>2</sup> max.
<b>TURNOVER TEMPERATURE</b>	+25°C +5°C
<b>DRIVE LEVEL</b>	0.2 μW typical / 1.0 μW max.
<b>SHUNT CAPACITANCE C0</b>	1.3 pF typical
<b>DELIVERY FORM</b>	Tape & Reel (1.000 ~ 3.000 pcs per reel)
<b><u>OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION</u></b>	

## PART NUMBERING SYSTEM

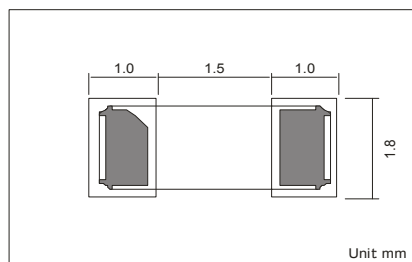
<b>EXAMPLE</b>	M3215 32.768 kHz +20 ppm 12.5pF (-40/+85°C)
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<b>PACKAGE</b>	M3215
<b>FREQUENCY</b>	32.768 kHz
<b>FREQUENCY TOLERANCE AT 25°C</b>	REQUIRED VALUE (+20 ppm standard)
<b>LOAD CAPACITANCE</b>	REQUIRED VALUE (12.5pF standard)
<b>TEMPERATURE RANGE</b>	(-40/+85°C = standard temperature range)

## OUTLINE DRAWING



## RECOMMENDED LAND PATTERN



## INTERNAL CONNECTIONS

