

# Plastic Surface Mount Watch Crystals

Series **CPTA**  
**CPTB**

- *Extended operating temperature*
- *Two industry standard pin connections*
- *Uniform, stable performance*

## Part Numbering Example: CPTA Z - A1 B2 C5 - 32.768K D12.5

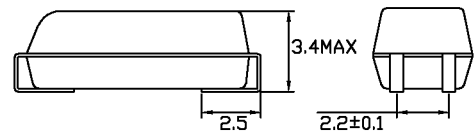
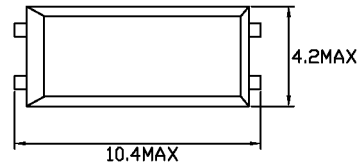
CPTA	Z	A1*	B2	C5	32.768K	D12.5
<b>SERIES</b>	<b>ADDED FEATURES</b>	<b>OPERATING TEMP.</b>	<b>STABILITY</b>	<b>TOLERANCE</b>	<b>FREQUENCY</b>	<b>LOAD CAP.</b>
CPTA CPTB	BLANK = BULK PACK Z = TAPE AND REEL	A0 = -10°C ~ +60°C A1 = -10°C ~ +70°C A2 = -40°C ~ +85°C A3 = -55°C ~ +125°C	B1 = ±100 B2 = ± 50 B3 = ± 30 B4 = ± 10	C1 = ±100 C2 = ± 50 C3 = ± 30 C4 = ± 10 C5 = ± 20		D12.5 pF

*\*NOTE: The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.*

## Specifications:

<b>Frequency Range:</b>	32.768 KHz Custom frequencies available.
<b>Operating Temperature:</b>	-40°C ~ +85°C <i>Standard</i>
<b>Temperature Coefficient:</b>	-(0.035 ± 0.008) ppm/°C <sup>2</sup>
<b>Frequency Tolerance:</b> <i>(at 25°C)</i>	± 20 ppm
<b>Load Capacitance:</b>	12.5 pF Other values are available.
<b>Shunt Capacitance:</b>	1.35 pF <i>Typical</i>
<b>Resistance:</b>	50,000Ω Max
<b>Standard:</b>	Shunt Capacitance: 0.85 pF typ. Motional Capacitance: 2.0 fF typ. Aging: ± 3 ppm/year Max Drive Level: 1.0 μW Max Packaging: Tape & Reel (2K per Reel)

## CPT



### RECOMMENDED SOLDER PAD LAYOUT

