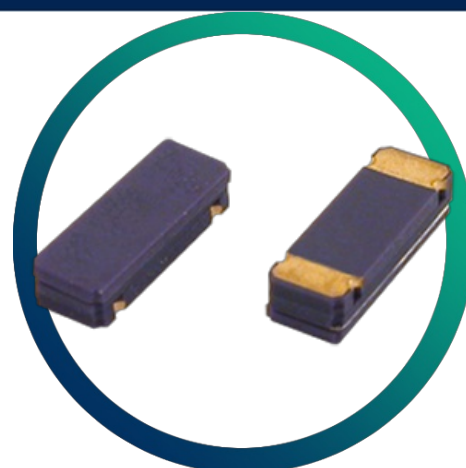


CC4V-T1A

Low Frequency SM Crystal -

55+125°C

- High shock & vibration resistance
- Military temperature range -55+125°C option
- AEC-Q200 Automotive option
- Low power consumption



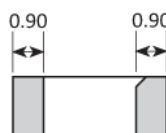
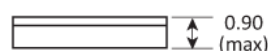
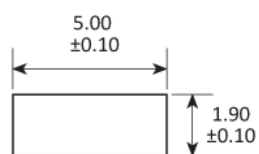
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±20ppm max (30.0kHz ~ 200kHz)	
±100ppm max (30.0kHz ~ 1.0MHz)	
±250ppm max (201 ~ 560kHz)	
±500ppm max (1.0MHz)	
Operating temperature range	
Any	
-40 to +85°C	
-55 to +125°C	M
Circuit condition	
Any	
9pF (30.0 ~ 200kHz)	
6pF (32.768kHz)	
7pF (32.768kHz)	
12.5pF (32.768kHz)	
9pF (201 ~ 560kHz)	
10pF (560kHz ~ 1.0MHz)	
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	A

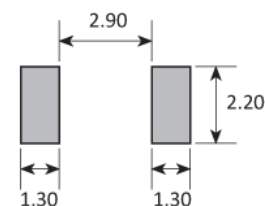
SPECIFICATIONS

Frequency range	32.768kHz (standard) 30.0kHz ~ 1.0MHz
Dimensions	5.0 x 1.9 x 0.9mm
Storage temperature range	-55 to +125 °C
Static capacitance (C ₀)	1.2pF typ @ 32.768kHz 1.3pF typ @ 200kHz 1.0pF typ @ 1.0MHz
Motional capacitance (C ₁)	2.1fF typ
Equivalent series resistance	50kΩ typ, 65kΩ max @ 32.768kHz 3.2kΩ typ, 5.0kΩ max @ 200kHz 500Ω typ, 1.2kΩ max @ 1.0MHz
Ageing	±3ppm max first year
Drive level	1.0μW max
Turnover temperature (T ₀)	+25 °C ±5 °C @ 32.768kHz +30 °C ±5 °C @ 200kHz +32 °C ±5 °C @ 1.0MHz
Frequency / temp coefficient	-0.035ppm/°C ² ±10%
Shock resistance	±5ppm, 5,000g, 0.3ms, ½ sine
Vibration resistance	±5ppm, 20g, 10.0 ~ 2,000Hz
Terminations	Gold plated pads
Soldering condition	Reflow, 260 °C, 20 sec max

PACKAGE DRAWING



SOLDER PAD LAYOUT



TOP VIEW

Dimensions in mm

Technical drawing of a 12-bladed propeller. The drawing includes three views: a side elevation, a top view, and a cross-sectional view.

Side Elevation View:

- Overall length: 1.75 ± 0.10
- Distance from front face to first blade: 4.00 ± 0.10
- Blade diameter: $1.50 \varnothing$
- Blade width: C
- Distance between blade roots: D
- Distance between blade tips: E
- Overall width: B
- Front face thickness: F

Top View:

- Overall diameter: 2.00
- Blade angle: 120°
- Distance from center to blade root: H

Cross-sectional View:

- Overall diameter: 2.00
- Blade thickness: $B + 2\text{mm (max)}$
- Distance from center to blade root: $13 \varnothing$
- Overall height: A

Dimensions in mm

*Larger reel size available. Please ask for details