



Features

- ▶ High shock & vibration resistance
- ▶ Military temperature range -55+125°C option
- ▶ Miniature ceramic package

Standard Calibration Tolerances

10.0 ~ 200kHz	201 ~ 560kHz	561kHz ~ 2.1MHz
±20ppm	±100ppm	±100ppm
±100ppm	±250ppm	±500ppm

Specifications

Parameters	Product	Option Code
	CC1V	
Terminations: Gold plated pads	■	T1A
Frequency range: 10.0kHz ~ 2.10MHz	■	
Calibration tolerance: see table Other	■ □	specify
Operating temperature range: -40 to +85°C -55 to +125°C	■ □	M
Storage temperature range: -55 to +125°C	■	
Circuit condition: 9pF (10.0 ~ 200kHz) 12.5pF (32.768kHz) 4pF (201 ~ 560kHz) 10pF (560kHz ~ 2.1MHz)	■ □ ■ ■	
Static capacitance (C ₀): 1.6pF typ @ 32.768kHz 1.6pF typ @ 307.2kHz 1.2pF typ @ 1.0MHz	■ ■ ■	
Motional capacitance (C ₁): 2.1fF typ @ 32.768kHz 1.7fF typ @ 307.2kHz 1.4fF typ @ 1.0MHz	■ ■ ■	
Equivalent series resistance: 37kΩ typ, 60kΩ max @ 32.768kHz 1.4kΩ typ, 3.5kΩ max @ 307.2kHz 600Ω 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 +22°C ±5°C @ 307.2kHz +39°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	■	
Soldering condition: Reflow, 260°C, 20 sec max	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Package type + termination + option codes (if any) + frequency + calibration tolerance
 eg: **CC1V-T1A 240kHz ±100ppm -40+85°C**
CC1V-T1A/M 307.20kHz ±250ppm -55+125°C
 Option code X (eg CC1V-T1A/X) denotes a custom spec.

- ◆ Available on T&R (1k or 4k pcs/reel) or trays (100pcs/tray).
- ◆ Refer to our website for T&R and soldering details.
- ◆ Ask about higher shock & vibration specifications.