



## Features

- ▶ Ultra low profile - 0.5mm high
- ▶ Miniature ceramic package with metal lid
- ▶ High shock & vibration resistance
- ▶ Low power consumption

## Specifications

Parameters	Product	Option Code
	CM9V	
Terminations:	Gold plated pads	■ T1A
Frequency range:	32.768kHz	■
Calibration tolerance:	±20ppm ±100ppm	■ □ specify
Operating temperature range:	-40 to +85°C	■
Storage temperature range:	-55 to +125°C	■
Circuit condition:	7pF 9pF 12.5pF Other values	□ □ □ □ specify specify specify
Static capacitance (C <sub>0</sub> ):	1.0pF typ	■
Motional capacitance (C <sub>1</sub> ):	3.6fF typ	■
Equivalent series resistance:	90kΩ max @ 25°C	■
Ageing:	±3ppm max first year	■
Drive level:	0.5μW max	■
Turnover temperature (T <sub>0</sub> ):	+25°C ±5°C	■
Frequency / temp coefficient:	-0.035ppm/°C <sup>2</sup> ±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

Product name + termination + option codes + frequency + calibration tolerance + circuit condition

eg: **CM9V-T1A 32.768kHz ±20ppm 12.5pF**

**CM9V-T1A 32.768kHz ±100ppm 9pF**

Option code X (eg CM9V-T1A/X) denotes a custom spec.

- ◆ Available on T&R 1k, 3k or 14k pcs/reel.
- ◆ Ask about higher shock & vibration specifications.