



Features

- ▶▶▶▶ Miniature ceramic package with metal lid
- ▶▶▶▶ High shock & vibration resistance
- ▶▶▶▶ Extended temperature range options
- ▶▶▶▶ AEC-Q200 Automotive option
- ▶▶▶▶ Low power consumption

Specifications

Parameters	Product	Option Code
		CM7V
Terminations: Gold plated pads	■	T1A
Frequency range: 32.768kHz	■	
Calibration tolerance: ±20ppm ±100ppm	■ □	specify
Operating temperature range: -40 to +85°C -40 to +125°C -55 to +125°C	■ □ □	E M
Storage temperature range: -55 to +125°C	■	
Circuit condition: 4pF 6pF 7pF 9pF 12.5pF	□ □ □ □ ■	specify specify specify specify
Static capacitance (C ₀): 1.2pF typ	■	
Motional capacitance (C ₁): 3.7fF typ	■	
Equivalent series resistance: 50kΩ typ, 70kΩ max @ 25°C	■	
Ageing: ±3ppm max first year	■	
Drive level: 1.0μW max	■	
Turnover temperature (T ₀): +25°C ±5°C	■	
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	■	
Qualification: Commercial AEC-Q200 (Automotive)	■ □	A

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

Ordering Information

Product name + termination + option codes + frequency + calibration tolerance + circuit condition
 eg: **CM7V-T1A 32.768kHz ±20ppm 12.5pF** -40+85°C
CM7V-T1A/EA 32.768kHz ±100ppm 7pF -40+125°C, AEC-Q200
 Option code X (eg CM7V-T1A/X) denotes a custom spec.

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