



Features

- ▣ Fundamental mode
- ▣ High shock & vibration resistance
- ▣ Military temperature range option
- ▣ Low power consumption
- ▣ Miniature ceramic package

Standard Frequencies

Frequencies in MHz			
8.00000	11.05920	16.00000	24.00000
10.00000	12.00000	16.38400	
10.15060	14.31818	20.00000	

Specifications

Parameters	Product	Option Code
	CC1A	
Terminations: Gold plated pads	■	T1A
Frequency range: 8.0 ~ 30.0MHz	■	
Calibration tolerance: ±50ppm Other	■ □	specify
Temperature stability / range: ±50ppm over -40 to +85°C ±100ppm over -55 to +125°C Other	■ □ □	M specify
Storage temperature range: -55 to +125°C	■	
Circuit condition: 20pF 10 ~ 50pF	■ □	specify
Static capacitance (C₀): 2.2pF typ @ 10.0MHz 2.8pF typ @ 16.384MHz 3.6pF typ @ 24.0MHz	■ ■ ■	
Motional capacitance (C₁): 5.2fF typ @ 10.0MHz 7.2fF typ @ 16.384MHz 11.5fF typ @ 24.0MHz	■ ■ ■	
Equivalent series resistance: 35Ω typ, 75Ω max @ 10.0MHz 20Ω typ, 50Ω max @ 16.384MHz 20Ω typ, 50Ω max @ 24.0MHz	■ ■ ■	
Ageing: ±3ppm max first year	■	
Drive level: 100μW typ, 500μW max	■	
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 code (if any) + frequency

eg: **CC1A-T1A 20.0MHz** 50/100/40/20 (standard)

CC1A-T1A/M 24.0MHz ±50ppm 30pF

Option code X (eg CC1A-T1A/X) denotes a custom spec.

- ◆ Available on T&R (1k or 2k pcs/reel) or trays (100pcs/tray).
- ◆ Refer to our website for T&R and soldering details.
- ◆ Ask about higher shock & vibration specifications.