



Features

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

Standard Frequencies

Frequencies in MHz			
8.00000	12.00000	16.00000	24.00000
10.00000	12.28800	16.38400	
10.15060	13.56000	18.43200	
11.05920	14.31818	20.00000	

Other frequencies available. Please consult our sales office.

Specifications

Parameters	Product	Option Code
	CC1A	
Terminations: Gold flashed pads Si/Ag/Cu plated pads	<input checked="" type="checkbox"/> <input type="checkbox"/>	T1A T3A
Frequency range: 8.0 ~ 30.0MHz	<input checked="" type="checkbox"/>	
Calibration tolerance: ±50ppm Other	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
Temperature stability / range: ±50ppm over -40 to +85C ±100ppm over -55 to +125C Other	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M specify
Storage temperature range: -55 to +125C	<input checked="" type="checkbox"/>	
Circuit condition: 20pF 10 ~ 50pF	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
Static capacitance (C₀): 2.0pF typ @ 8.0MHz 2.8pF typ @ 16.384MHz 4.0pF typ @ 24.0MHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Motional capacitance (C₁): 4.0fF typ @ 8.0MHz 8.0fF typ @ 16.384MHz 11.0fF typ @ 24.0MHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Equivalent series resistance: 60Ω typ, 100Ω max @ 8.0MHz 35Ω typ, 60Ω max @ 16.384MHz 30Ω typ, 40Ω max @ 24.0MHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Ageing: ±3ppm max first year	<input checked="" type="checkbox"/>	
Drive level: 100μW typ, 500μW max	<input checked="" type="checkbox"/>	
Shock resistance: ±5ppm, 5,000g, 0.3ms, sine	<input checked="" type="checkbox"/>	
Vibration resistance: ±5ppm, 20g, 10.0 ~ 2,000Hz	<input checked="" type="checkbox"/>	
Soldering condition: Reflow, 260C, 20 sec max	<input checked="" type="checkbox"/>	

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

Ordering Information

Package type + termination + option code (if any) + frequency

eg: **CC1A-T1A 20.0MHz** ±50ppm -40+85C (standard)

CC1A-T1A/M 24.0MHz ±100ppm -55+125C

Option code X (eg CC1A-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.