



## Features

- ▣ Suitable for Avionics, Downhole, Geothermal etc
- ▣ Extreme temperature ranges up to 200°C
- ▣ High stability & low ageing under extremes
- ▣ High shock & vibration resistance
- ▣ Ultra low MSL
- ▣ Hermetically sealed

## Specifications

Parameters	Product	Option Codes
	CC2A-T1AH	
Frequency range: 10.0 ~ 40.0MHz	■	
Calibration tolerance (@ 25°): ±50ppm	■	
Temperature stability: ±150ppm over -55 to +175°C ±250ppm over -55 to +200°C	■ □	TD TG
Storage temperature range: -55 to +125°C	■	
Circuit condition: 20pF Other values	■ □	specify
Oscillation mode: Fundamental	■	
Equivalent series resistance (typ/max): 100/150Ω (10.0 ~ 13.99MHz) 70/120Ω (14.0 ~ 17.99MHz) 50/100Ω (18.0 ~ 23.99MHz) 40/80Ω (24.0 ~ 40.0MHz)	■ ■ ■ ■	
Motional capacitance (typ/max): 3/5fF (10.0 ~ 13.99MHz) 5/8fF (14.0 ~ 17.99MHz) 8/10fF (18.0 ~ 23.99MHz) 10/12fF (24.0 ~ 40.0MHz)	■ ■ ■ ■	
Static capacitance (typ): 2.0pF (10.0 ~ 13.99MHz) 2.5pF (14.0 ~ 17.99MHz) 3.0pF (18.0 ~ 23.99MHz) 4.0pF (24.0 ~ 40.0MHz)	■ ■ ■ ■	
Ageing: ±3ppm max first year	■	
Test drive level: 100μW typ, 200μW typ	■	
Shock resistance: 10,000G, 0.3ms, ½ sine	■	
Vibration resistance: 40G rms 10.0 ~ 2,000Hz	■	
Soldering condition: 260°C, 20s max Gold plated pads Sn/Ag/Cu plated pads on request (TD only)	■ ■ □	

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

## Ordering Information

Product name + option codes + frequency

eg: **CC2A-T1AH/TD 16.0MHz** ±150ppm over -55 to +175°C

**CC2A-T1AH/TG 24.0MHz** ±250ppm over -55 to +200°C

Option code X (eg CC2A-T1AH/X) denotes a custom spec.

◆ Available on T&R - 1k or 2k pcs per reel.