



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
	CC1A-T1AH	
Frequency range:	8.0 ~ 24.0MHz	■
Calibration tolerance (@ 25°C):	±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 (8.0 ~ 9.99MHz) 70/120Ω (10.0 ~ 11.99MHz) 60/120Ω (12.0 ~ 15.99MHz) 50/100Ω (16.0 ~ 24.0MHz)	■ ■ ■ ■
Motional capacitance (typ/max):	4/7fF (8.0 ~ 9.99MHz) 5/8fF (10.0 ~ 11.99MHz) 6/10fF (12.0 ~ 15.99MHz) 8/11fF (16.0 ~ 19.99MHz) 9/13fF (20.0 ~ 24.0MHz)	■ ■ ■ ■ ■
Static capacitance (typ):	2.0pF (8.0 ~ 9.99MHz) 2.2pF (10.0 ~ 11.99MHz) 2.5pF (12.0 ~ 15.99MHz) 2.8pF (16.0 ~ 19.99MHz) 3.2pF (20.0 ~ 24.0MHz)	■ ■ ■ ■ ■
Ageing:	±3ppm max first year	■
Test drive level:	100μW typ, 200μW max	■
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: **CC1A-T1AH/TD 16.0MHz** ±150ppm over -55 to +175°C
CC1A-T1AH/TG 24.0MHz ±250ppm over -55 to +200°C
 Option code X (eg CC1A-T1AH/X) denotes a custom spec.

- ◆ Available on T&R - 1k or 2k pcs per reel.
- ◆ Note: Due to space constraints our sales documentation references CC1AT1AH (ie no hyphen)