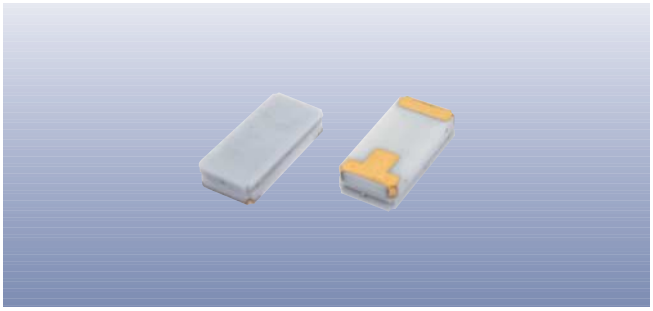
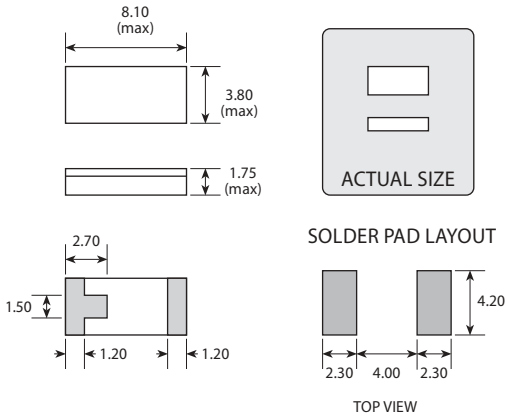
# SM Crystal Mil Temp High Freq Fundamental

**CC1F**






Scale 2:1

## Features

- **Fundamental mode up to 250MHz**
- **Inverted mesa technology**
- **High shock & vibration resistance**
- **Military temperature range option**
- **Low power consumption**

## Standard Frequencies

| Fundamental in MHz | |
|---|---|
| 50.000000 | 166.628600 |
| 77.760000 | 200.000000 |
| 100.000000 | 207.360000 |
| 106.250000 | 212.500000 |
| 125.000000 | 250.000000 |
| 155.520000 | |

## Specifications

| Parameters | Product CC1F | Option Code |
|---|---|---|
| **Terminations:** Gold plated pads | ■ | T1A |
| Ni+Sn plated pads | □ | T2A |
| **Frequency range:** 30.0 ~ 250MHz | ■ | |
| **Calibration tolerance:** ±50ppm | ■ | |
| Other | □ | specify |
| **Temperature stability / range:** | | |
| ±30ppm over -40 to +85°C | ■ | |
| ±100ppm over -55 to +125°C | □ | M |
| Other | □ | specify |
| **Storage temperature range:** | | |
| -55 to +125°C | ■ | |
| **Circuit condition:** 10pF | ■ | |
| Other | □ | specify |
| **Static capacitance ($C_0$):** | | |
| 2.0pF typ @ 50.0MHz | ■ | |
| 2.9pF typ @ 155.52MHz | ■ | |
| **Motional capacitance ($C_1$):** | | |
| 5.6fF typ @ 50.0MHz | ■ | |
| 5.6fF typ @ 155.52MHz | ■ | |
| **Equivalent series resistance:** | | |
| 15Ω typ, 50Ω max @ 50.0MHz | ■ | |
| 15Ω typ, 35Ω max @ 155.52MHz | ■ | |
| **Ageing:** ±3ppm max first year | ■ | |
| **Drive level:** 100µW 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: **CC1F-T1A 77.760MHz** 50/100/40/20 (standard)

**CC1F-T1A/M 155.520MHz ±50ppm 30pF**

Option code X (eg CC1F-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.

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

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