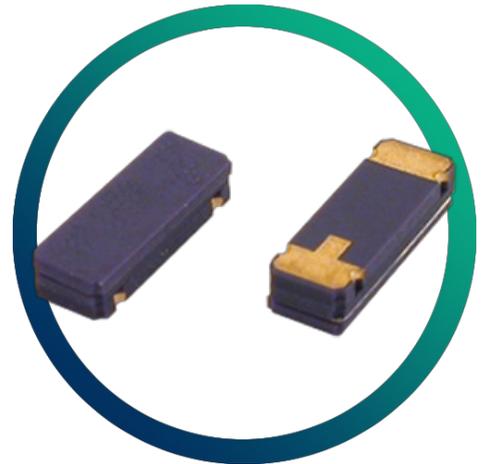


# CC1A-T1A

## SM Crystal -55+125°C

- Fundamental mode
- High shock & vibration resistance
- Military temperature range -55+125°C option
- Low power consumption



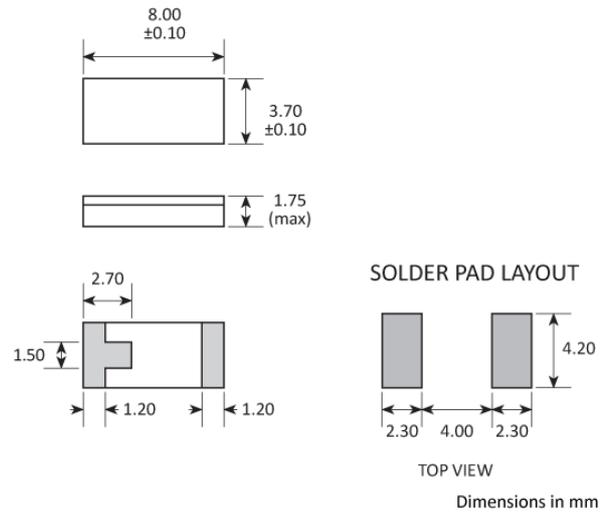
### CONFIGURABLE OPTIONS

| Parameter                     | Option Code |
|-------------------------------|-------------|
| Frequency                     |             |
| Calibration tolerance         |             |
| ±50ppm                        |             |
| Temperature stability / range |             |
| Any                           |             |
| ±50ppm over -40 to +85°C      |             |
| ±80ppm over -40 to +125°C     |             |
| ±100ppm over -55 to +125°C    | M           |
| Circuit condition             |             |
| 20pF                          |             |

## SPECIFICATIONS

|  |  |
|--|--|
| Frequency range                        | 8.0 ~ 30.0MHz  |
| Dimensions                             | 8.0 x 3.7 x 1.75mm   |
| Storage temperature range              | -55 to +125°C  |
| Static capacitance (C <sub>0</sub> )   | 2.0pF typ @ 8.0MHz<br>2.8pF typ @ 16.384MHz<br>4.0pF typ @ 24.0MHz                       |
| Motional capacitance (C <sub>1</sub> ) | 4.0fF typ @ 8.0MHz<br>8.0fF typ @ 16.384MHz<br>11.0fF typ @ 24.0MHz                      |
| Equivalent series resistance           | 60Ω typ, 100Ω max @ 8.0MHz<br>35Ω typ, 60Ω max @ 16.384MHz<br>30Ω typ, 40Ω 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  |
| Terminations                           | Gold flashed pads  |

## PACKAGE DRAWING



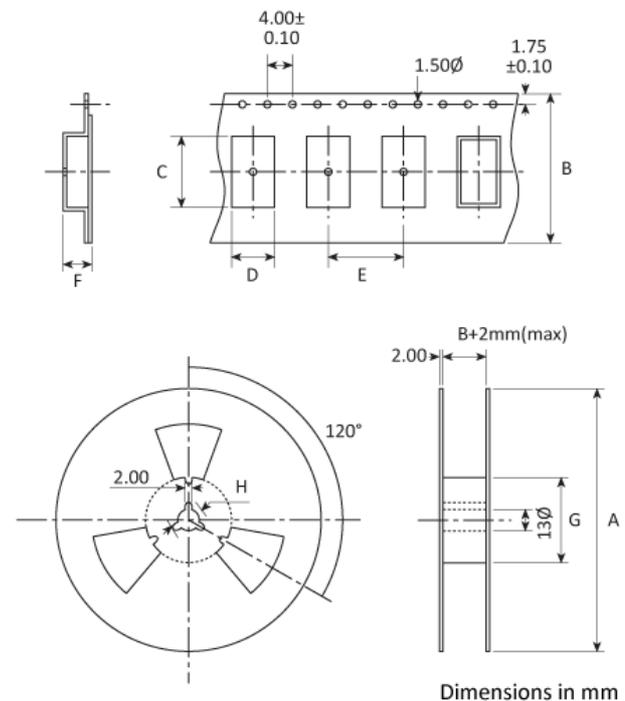
## ORDERING INFORMATION

To request a quotation for the CC1A-T1A please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at [sales@golledge.com](mailto:sales@golledge.com).

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

## TAPE & REEL SPECIFICATION



A:178\* B:16 C:8.5 D:4.4 E:8 F:2 G:80 H:21

\*Larger reel size available. Please ask for details

## HANDLING & STORAGE

---



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)

## CONSTRUCTION

---

Ceramic base and lid

## COMPLIANCE

---

Please refer to our **DOCUMENTS** section for more information.



Lead-free (< 0.1% by weight )



RoHS compliant with no exemptions.



REACH compliant.



Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.