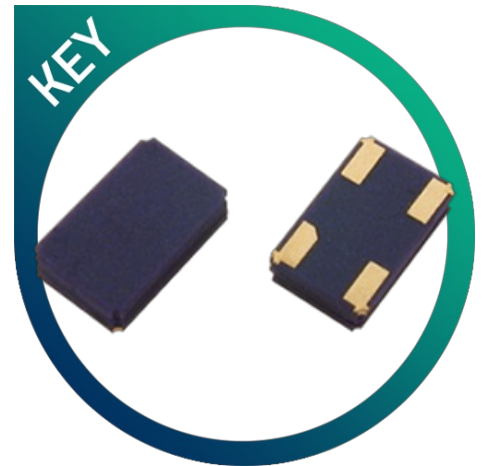


CC6A-T1DH

-55+200 °C Miniature SM Crystal for Extreme Environments

- Suitable for Avionics, Down-hole, Geothermal etc
- Extreme temperature ranges up to 200 °C
- High stability & low ageing under extremes
- High shock & vibration resistance

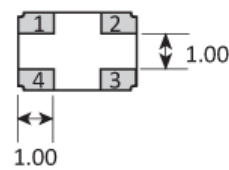
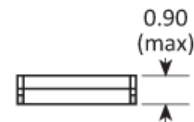
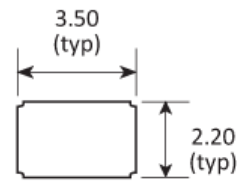
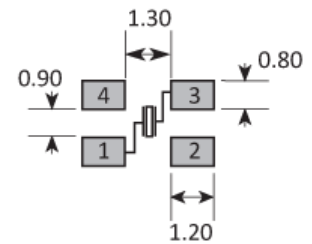


CONFIGURABLE OPTIONS

| Parameter | Option Code |
|-----------------------------|-------------|
| Frequency | |
| Temperature stability | |
| Any | |
| ±100ppm over -55 to +125 °C | TC |
| ±150ppm over -55 to +175 °C | TD |
| ±250ppm over -55 to +200 °C | TG |
| Circuit condition | |
| 20pF | |

SPECIFICATIONS

| | |
|--|--|
| Frequency range | 16.0 ~ 40.0MHz |
| Dimensions | 3.5 x 2.2 x 0.9mm |
| Calibration tolerance (@ 25 °C) | ±50ppm |
| Storage temperature range | -55 to +125 °C |
| Oscillation mode | Fundamental |
| Equivalent series resistance | 80Ω typ, 200Ω max (16.0 ~ 19.99MHz) 60Ω typ, 120Ω max (20.0 ~ 23.99MHz) 50Ω typ, 100Ω max (24.0 ~ 40.0MHz) |
| Motional capacitance (C ₁) | 2fF typ, 4fF max (16.0 ~ 19.99MHz) 3fF typ, 5fF max (20.0 ~ 23.99MHz) 4fF typ, 6fF max (24.0 ~ 40.0MHz) |
| Static capacitance (C ₀) | 1.5pF typ (16.0 ~ 19.99MHz) 2.0pF typ (20.0 ~ 23.99MHz) 2.5pF typ (24.0 ~ 40.0MHz) |
| Ageing | ±3ppm max first year |
| 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 |
| Terminations | Gold plated pads |

PACKAGE DRAWING

SOLDER PAD LAYOUT


TOP VIEW

| PAD | CONNECTION |
|-----|---------------|
| 1 | Crystal |
| 2 | Not connected |
| 3 | Crystal |
| 4 | Not connected |

Dimensions in mm

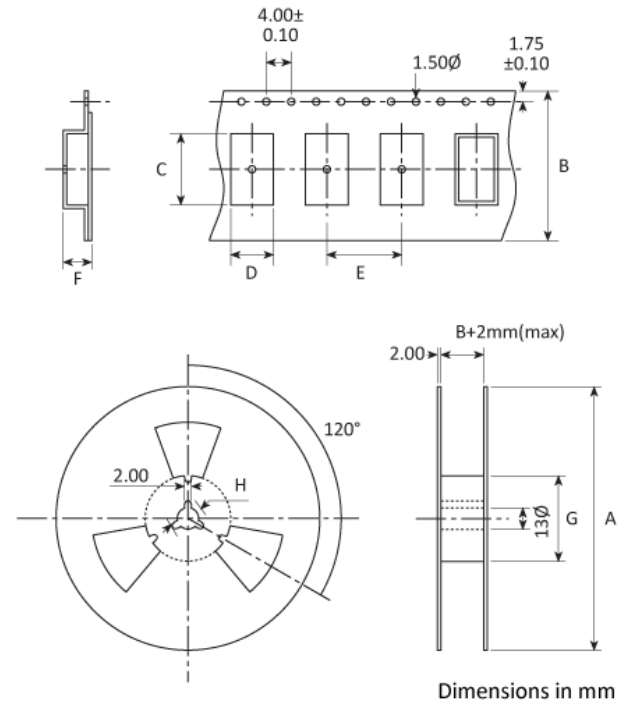
ORDERING INFORMATION

To request a quotation for the CC6A-T1DH 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.

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:12 C:4 D:2.6 E:4 F:1.1 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


 Lead-free (< 0.1% by weight)

 RoHS compliant with no exemptions. [See our declaration](#)

 REACH compliant. [See our statement](#)

 Free of conflict minerals. [See our declaration](#)

 Free of Halogens. [See our declaration](#)

 Free of Ozone-depleting substances. [See our declaration](#)