

# GTXO-205T

1.8V ~ 3.3V Tight Stability High

Temperature TCXO

- Wide operating temperature range -40 to +105 °C
- Excellent frequency stability  $\pm 0.5$ ppm
- Low power consumption
- Low phase noise
- Ultra miniature low profile SM package



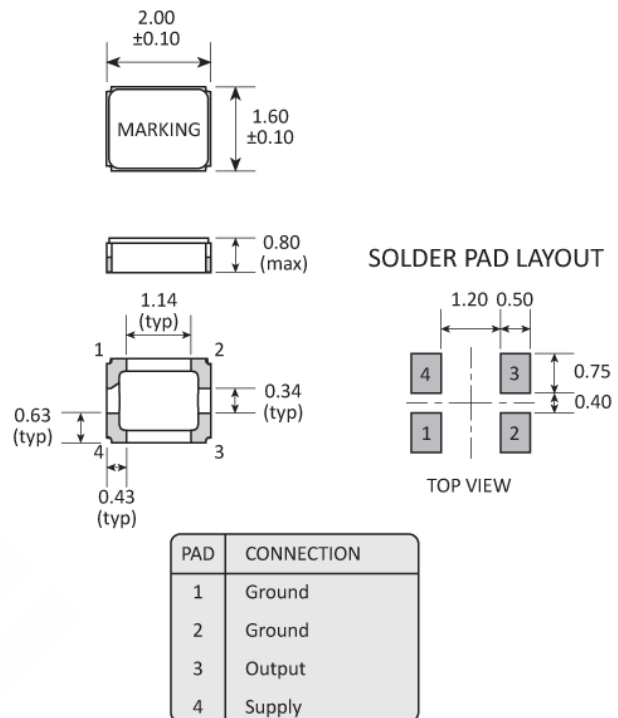
## CONFIGURABLE OPTIONS

| Parameter                   | Option Code |
|-----------------------------|-------------|
| Frequency                   |             |
| Temperature stability       |             |
| Any                         |             |
| $\pm 0.5$ ppm max           | E           |
| Operating temperature range |             |
| Any                         |             |
| -40 to +105 °C              | D           |

## SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Frequency range             | 16.0 ~ 52.0MHz   |
| Dimensions                  | 2.0 x 1.6 x 0.8mm  |
| Storage temperature range   | -40 to +105 °C   |
| Supply voltage stability    | ±0.2ppm, $V_{DD}$ ±5%  |
| Load stability              | ±0.2ppm, $Z_L$ ±10%  |
| Ageing                      | ±1.0ppm max (first year)   |
| Supply voltage ( $V_{DD}$ ) | Operable from 1.8V ~ 3.3V ±5%  |
| Supply current              | 1.5mA max (≤26.0MHz)<br>2.0mA max (>26.0MHz - 32.0MHz)<br>2.5mA max (>32.0MHz - 52.0MHz) |
| Output waveform             | Clipped sine, 0.8V p-p min.  |
| Test load ( $Z_L$ )         | 10kΩ // 10pF   |
| Start up time               | 2ms max  |
| Phase noise                 | -135dBc/Hz @ 1kHz  |
| Frequency tolerance @ 25 °C | ±2.0ppm max, 60mins after reflow   |

## PACKAGE DRAWING



Dimensions in mm

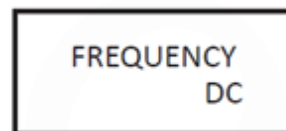
## ORDERING INFORMATION

To request a quotation for the GTXO-205T 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.

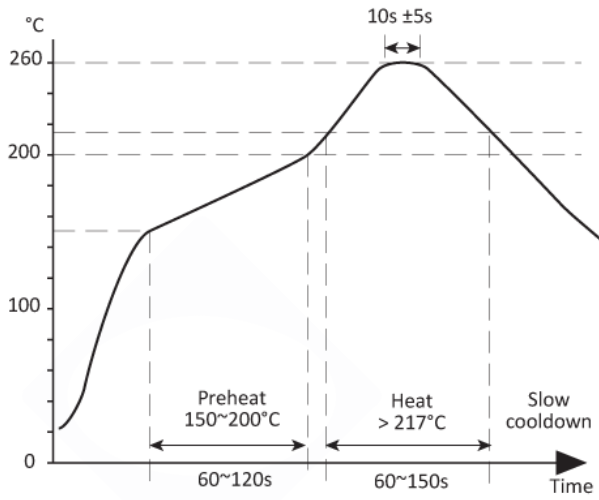
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

## MARKING



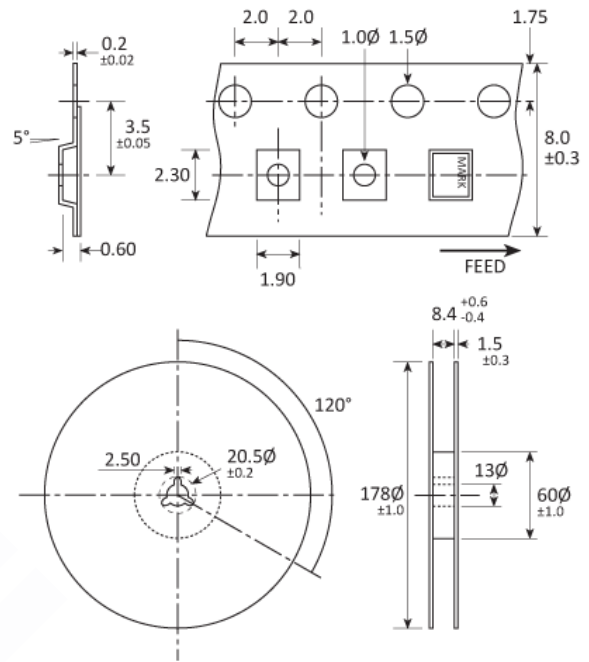
Marking type: Laser

**SOLDERING PROFILE**



Lead free solderability limits: 260°C ±5°C x 10s ±5s x 2.

**TAPE & REEL SPECIFICATION**



Dimensions in mm

**HANDLING & STORAGE**



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




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


**CONSTRUCTION**

Ceramic body with gold-plated pads metal lid, seam sealed


## MATERIAL COMPOSITION


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 Lead-free (< 0.1% by weight)

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

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

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

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

 REACH compliant. [See our statement](#)

## OTHER INFORMATION

### About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

### Come and visit

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).  
To take advantage of our highly praised service get in touch with us today.