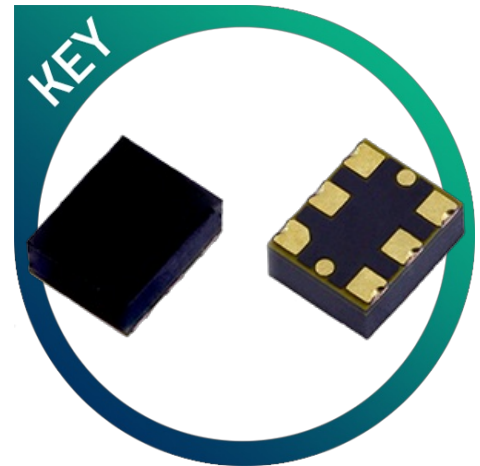


# GVXO-M28G

## 1.8V VCXO with CML output and wide pulling range

- Frequencies up to 2.1GHz
- Ultra low noise
- Wide pulling range
- CML output
- Enable / disable tristate function



### CONFIGURABLE OPTIONS

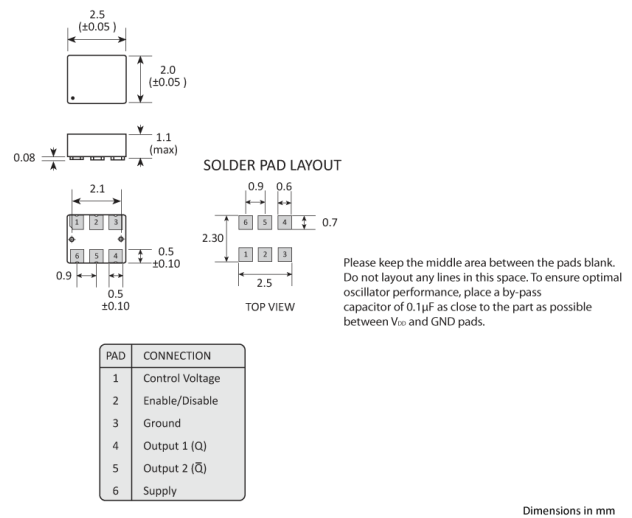
| Parameter                   | Option Code |
|-----------------------------|-------------|
| Frequency                   |             |
| Frequency pullability       |             |
| ±200ppm min                 |             |
| Frequency stability         |             |
| * see note below            |             |
| Any                         |             |
| ±50ppm max                  | B           |
| ±25ppm max                  | C           |
| ±20ppm max                  | D           |
| Operating temperature range |             |
| Any                         |             |
| -20 to +70°C                |             |
| -40 to +85°C                | I           |

\* Frequency stability is inclusive of calibration @25°C, operating temperature range, supply voltage change, load change and first year ageing.

## SPECIFICATIONS

|                               |                                   |
|-------------------------------|-----------------------------------|
| Frequency range               | 15.0 ~ 2100MHz                    |
| Dimensions                    | 2.5 x 2.0 x 1.1mm                 |
| Voltage control ( $V_{CTL}$ ) | +0.9V $\pm$ 0.72V, 10% linearity  |
| Storage temperature range     | -55 to +125 °C                    |
| Supply voltage ( $V_{DD}$ )   | +1.8V ( $\pm$ 10%)                |
| Supply current                | 70mA max                          |
| Output                        | CML                               |
| Offset voltage                | 1.25V typ                         |
| Differential output voltage   | 0.35V typ                         |
| Waveform symmetry             | 45:55 max @ 50% $V_{p-p}$         |
| Rise / fall time              | 0.35ns max (20% ~ 80% $V_{p-p}$ ) |
| Startup time                  | 8ms max                           |
| Phase jitter                  | 300fs max (12kHz ~ 20MHz)         |
| Enable / disable function     | Tristate (control via pad 2)      |

## PACKAGE DRAWING



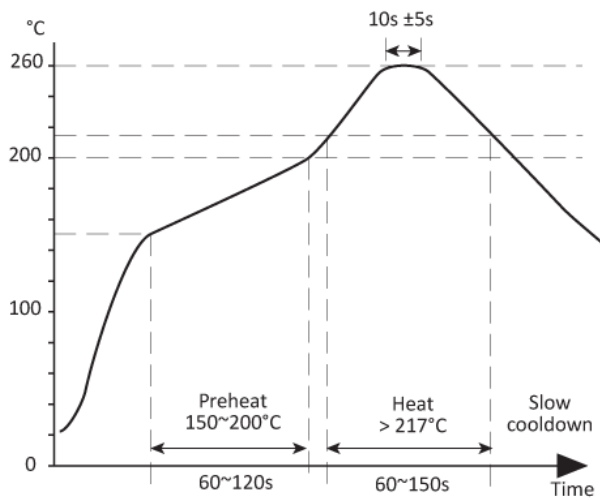
## ORDERING INFORMATION

To request a quotation for the GVXO-M28G 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).

## ENABLE / DISABLE FUNCTION

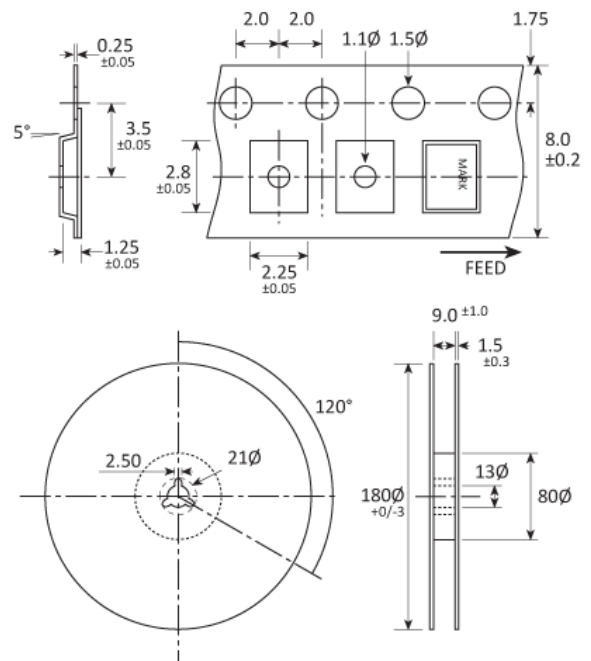
| Input (pad 2)                   | Output 1 (pad 4) | Output 2 (pad 5) |
|---------------------------------|------------------|------------------|
| Open                            | Enabled          | Enabled          |
| '1' level ( $\geq 0.7 V_{DD}$ ) | Enabled          | Enabled          |
| '0' level ( $\leq 0.3 V_{DD}$ ) | High Impedance   | High Impedance   |

## SOLDERING PROFILE



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

## TAPE & REEL SPECIFICATION



Dimensions in mm

## CONSTRUCTION

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