

# GXO-3201G

## 1.8~3.3V SM Oscillator

- Low current consumption
- Enable / disable tristate function
- Miniature ceramic package with metal lid
- Competitive pricing



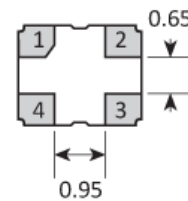
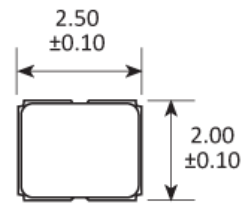
### CONFIGURABLE OPTIONS

| Parameter                   | Option Code |
|-----------------------------|-------------|
| Frequency                   |             |
| Frequency stability*        |             |
| Any                         |             |
| ±100ppm                     |             |
| ±50ppm                      | B           |
| ±30ppm                      | E           |
| ±25ppm                      | A           |
| Operating temperature range |             |
| Any                         |             |
| -20 to +70°C                |             |
| -40 to +85°C                | I           |

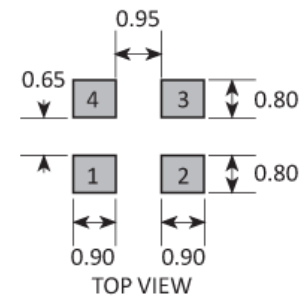
## SPECIFICATIONS

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Frequency range             | 0.75 ~ 50.0MHz                                                                                                          |
| Storage temperature range   | -55 to +100°C                                                                                                           |
| Supply voltage ( $V_{DD}$ ) | +1.8V ( $\pm 5\%$ )                                                                                                     |
| Supply current              | $\leq 20.0\text{MHz}$ : 2.5mA max<br>$>20.0 \sim 40.0\text{MHz}$ : 2.5mA max<br>$>40.0 \sim 50.0\text{MHz}$ : 3.5mA max |
| Logic levels                | '0' level = $10\%V_{DD}$ max<br>'1' level = $90\%V_{DD}$ min                                                            |
| Start up time               | 10ms max                                                                                                                |
| Waveform symmetry           | 40:60 @ $50\%V_{DD}$<br>45:55 @ $50\%V_{DD}$                                                                            |
| Driving ability             | 15pF CMOS                                                                                                               |
| Rise / fall time            | 10ns max                                                                                                                |
| Enable / disable function   | Tristate (control via pad 1)<br>E/D times 10ms / 200ns                                                                  |
| Period jitter RMS           | 5ps max                                                                                                                 |
| Phase jitter RMS            | 1ps max, 12kHz~20MHz                                                                                                    |
| Ageing                      | $\pm 5\text{ppm}$ / year max                                                                                            |

## PACKAGE DRAWING



### SOLDER PAD LAYOUT



| PAD | CONNECTION     |
|-----|----------------|
| 1   | Enable/Disable |
| 2   | Ground         |
| 3   | Output         |
| 4   | Supply         |

Dimensions in mm

## ORDERING INFORMATION

To request a quotation for the GXO-3201G 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.

## ENABLE / DISABLE FUNCTION

| Input (pad 1) | Output (pad 3) |
|---------------|----------------|
| Open          | Enabled        |
| '1' level     | Enabled        |
| '0' level     | High Impedance |

## MARKING

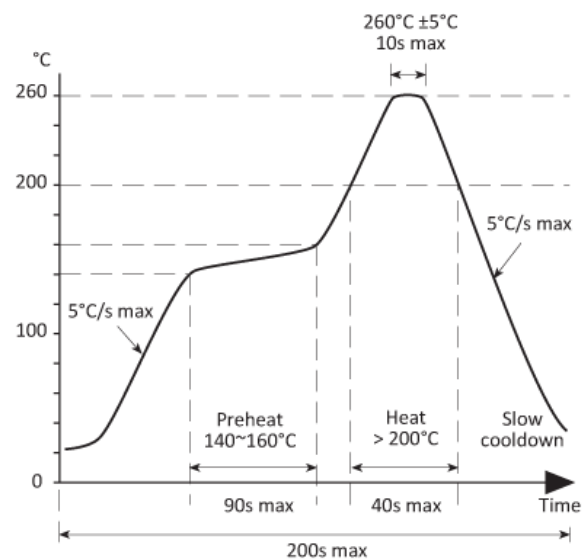
| FREQUENCY |    |
|-----------|----|
| S         | DC |

Marking type: Laser

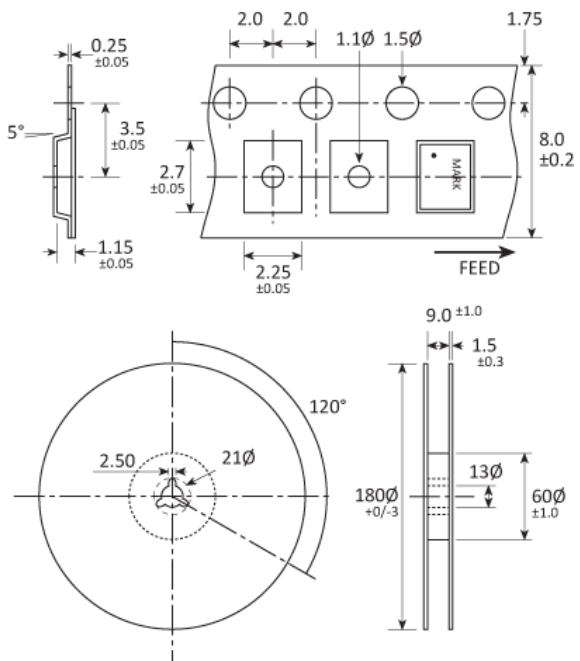
DC = Date Code in YM, eg. "GF" = Jun 2017

|   | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | L   | M   |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Y | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 0   |     |     |
| M | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |

## SOLDERING PROFILE



## TAPE & REEL SPECIFICATION



Dimensions in mm

## HANDLING & STORAGE



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



Moisture Sensitivity Level (MSL): 1

## CONSTRUCTION

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

## MATERIAL COMPOSITION



Lead-free (< 0.1% by weight )



Product is RoHS 2 compliant



Nominal Net Mass: 18mg

## MATERIAL COMPOSITION DATASHEET

MCDFamily GXO-3201.pdf

## 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

Eaglewood Park, ILMINSTER,  
Somerset, TA19 9DQ, England

### Give us a call

Tel: +44 1460 256 100  
Fax: +44 1460 256 101

### Email us

[sales@golledge.com](mailto:sales@golledge.com)

### Our Worldwide Distributors

#### Belgium & Luxembourg

Alcom Electronics NV/SA



Email [info@alcom.be](mailto:info@alcom.be)  
Web [www.alcom.be](http://www.alcom.be)  
Tel +32 (0)3 458.30.33

#### China, Hong Kong - 中国 / 香港

Meiya China



Email [sales@meiyatech.com](mailto:sales@meiyatech.com)  
Web [www.meiyatech.com](http://www.meiyatech.com)  
Tel +86 755 2823 1923

#### France

Equipments Scientifique



Email [comp@es-france.com](mailto:comp@es-france.com)  
Web [www.es-france.com](http://www.es-france.com)  
Tel +33 1 47 95 99 89

#### Germany

MEV Elektronik Service GmbH



Email [info@mev-elektronik.com](mailto:info@mev-elektronik.com)  
Web [www.mev-elektronik.com](http://www.mev-elektronik.com)  
Tel +49 54 24 23 40-0

#### India

V5 Semiconductors



Email [sales@v5semiconductors.com](mailto:sales@v5semiconductors.com)  
Web [v5semiconductors.com](http://v5semiconductors.com)  
Tel +91-80-2661 0621

#### Israel

Phoenix Technologies Ltd



Email [sales@phnx.co.il](mailto:sales@phnx.co.il)  
Web [www.phnx.co.il](http://www.phnx.co.il)  
Tel +972 9 764 4800

#### Netherlands

Alcom Electronics BV



Email [info@alcom.nl](mailto:info@alcom.nl)  
Web [alcom.nl](http://alcom.nl)  
Tel +31 (0)10 288.25.00

#### Norway

Link Nordic



Email [bjorn.nyjordet@linknordic.com](mailto:bjorn.nyjordet@linknordic.com)  
Web [linknordic.com](http://linknordic.com)  
Tel +47 93 22 68 90

#### Russia - Россия

EFO Ltd



Email [elena@efo.ru](mailto:elena@efo.ru)  
Web [www.golledge.ru](http://www.golledge.ru)  
Tel +7(812)327-8654

#### Spain & Portugal

R.C. Microelectronica, S.A.



Email [ventas@rcmicro.es](mailto:ventas@rcmicro.es)  
Web [www.rcmicro.es](http://www.rcmicro.es)  
Tel +34 93 260 21 66

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.