# **GXO-U101F**

# 5.0V DIL-14 Package Leaded Oscillator with High Drive Capability

- Industrial temperature range option
- High drive capability up to 50pF
- Enable / disable tristate function
- Tight tolerance options

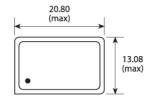


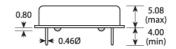
| CONFIGURABLE OPTIONS        |             |
|-----------------------------|-------------|
| Parameter                   | Option Code |
| Frequency                   |             |
| Frequency stability         |             |
| Any                         |             |
| ±100ppm                     |             |
| ±50ppm                      | В           |
| ±25ppm                      | А           |
| Operating temperature range |             |
| Any                         |             |
| 0 to +70°C                  |             |
| -40 to +85°C                | I .         |

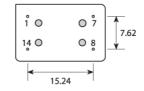
## **SPECIFICATIONS**

| Frequency range                               | 125kHz ~ 160MHz                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                                    | 20.5 x 13.0 x 5.08mm                                                                                                                            |
| Package style                                 | 14 pin DIL (full size)                                                                                                                          |
| Storage                                       | -55 to +125°C                                                                                                                                   |
| temperature range                             |                                                                                                                                                 |
| Supply voltage (V <sub>DD</sub> )             | +5.0V (±5%)                                                                                                                                     |
| Supply current                                | 15mA max (125kHz ~ 0.99MHz)<br>20mA max (1.0 ~ 5.0MHz)<br>25mA max (>5.0 ~ 24.0MHz)<br>30mA max (>24.0 ~ 70.0MHz)<br>40mA max (>70.0 ~ 90.0MHz) |
| Driving ability                               | 50mA max (>90.0 ~ 160MHz)<br>50pF CMOS / 10 LSTTL (<50.0MHz)<br>30pF CMOS / 5 LSTTL (>50.0MHz)                                                  |
| Output voltage                                | '0' level = 0.4V max<br>'1' level = 90% V <sub>DD</sub> min                                                                                     |
| Start up time                                 | 10ms max                                                                                                                                        |
| Rise / fall time                              | 6ns max (<80.0MHz)<br>5ns max (>80.0MHz)                                                                                                        |
| Waveform<br>symmetry @ 50%<br>V <sub>DD</sub> | 45:55 max (<50.0MHz)<br>40:60 max (>50.0MHz)                                                                                                    |
| Enable / disable function                     | Tristate (control via pin 1)                                                                                                                    |
| Output enable/disable time                    | 100ns / 100ns typ                                                                                                                               |

## **PACKAGE DRAWING**







| PIN | CONNECTION     | PIN |
|-----|----------------|-----|
| 1   | Enable/Disable | 1   |
| 7   | Ground         | 4   |
| 8   | Output         | 5   |
| 14  | Supply         | 8   |

Dimensions in mm

#### ORDERING INFORMATION

To request a quotation for the GXO-U101F 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 <a href="mailto:sales@golledge.com">sales@golledge.com</a>.

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 (pin 1) | Output (pin 8) |
|---------------|----------------|
| Open          | Enabled        |
| '1' level     | Enabled        |
| '0' level     | High Impedance |

#### **HANDLING & STORAGE**



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

CONSTRUCTION

Resistance weld



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

#### **COMPLIANCE**



(< 0.1% by weight)



RoHS compliant with no exemptions. <u>See our</u>

declaration



REACH compliant. See our statement



Au Ta Sn W Free of conflict minerals. See our declaration



Free of Halogens. <u>See our declaration</u>



Free of Ozone-depleting substances. <u>See our</u>

declaration