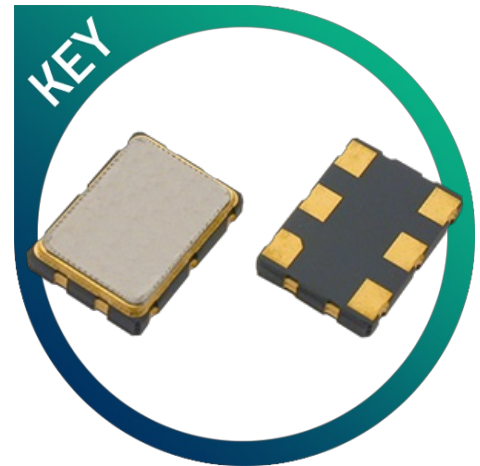


GXO-L72J

2.5V Low Jitter LVDS Oscillator with Power Saving

- LVDS outputs
- Low phase jitter
- Enable / disable tristate function
- Designed for SONET, SDH, IEEE1394 etc



CONFIGURABLE OPTIONS

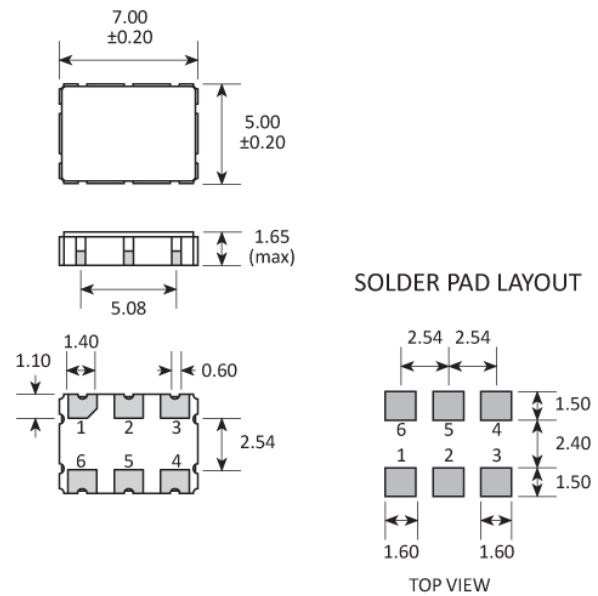
| Parameter | Option Code |
|---|-------------|
| Frequency | |
| Frequency stability * see note below | |
| Any | |
| ±100ppm | B |
| ±50ppm | A |
| ±25ppm | |
| Operating temperature range | |
| Any | |
| -10 to +70 °C | I |
| -40 to +85 °C | |
| Enable / disable function | |
| Any | |
| Tristate (control via pad 1) | |
| None (pad 1 not connected) | N |

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

SPECIFICATIONS

| | |
|------------------------------|--|
| Frequency range | 80.0 ~ 200MHz |
| Dimensions | 7.0 x 5.0 x 1.65mm |
| Storage temperature range | -40 to +85 °C |
| Supply voltage (V_{DD}) | +2.5V ($\pm 5\%$) |
| Supply current | 70mA max, 50mA typ |
| Output | LVDS |
| Offset voltage | 1.25V typ |
| Differential output voltage | 0.33V typ |
| Output load | 100 Ω |
| Logic levels | '0' level = 0.9V max '1' level = 1.6V min |
| Start up time | 10ms max |
| Waveform symmetry | 45:55 max @ 50% V_{p-p} |
| Rise / fall time | 1.0ns max (20 ~ 80% V_{p-p}) |
| Output enable / disable time | 2ms / 200ns max |
| Stand-by current | 30 μ A max |
| Phase jitter RMS | 1ps max (0.3ps typ), 12kHz~20MHz |

PACKAGE DRAWING



| PAD | CONNECTION |
|-----|-----------------------------------|
| 1 | Enable / disable or Not connected |
| 2 | Not connected |
| 3 | Ground |
| 4 | Output 1 |
| 5 | Output 2 |
| 6 | Supply |

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the GXO-L72J 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.

ENABLE / DISABLE FUNCTION

| Input (pad 1) | 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 |

MARKING

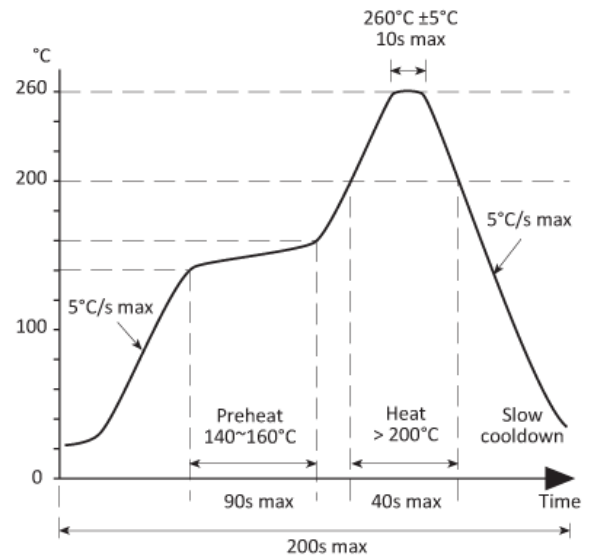
FREQUENCY DC
 • PARTNO

- Pin 1
- Marking type: Laser

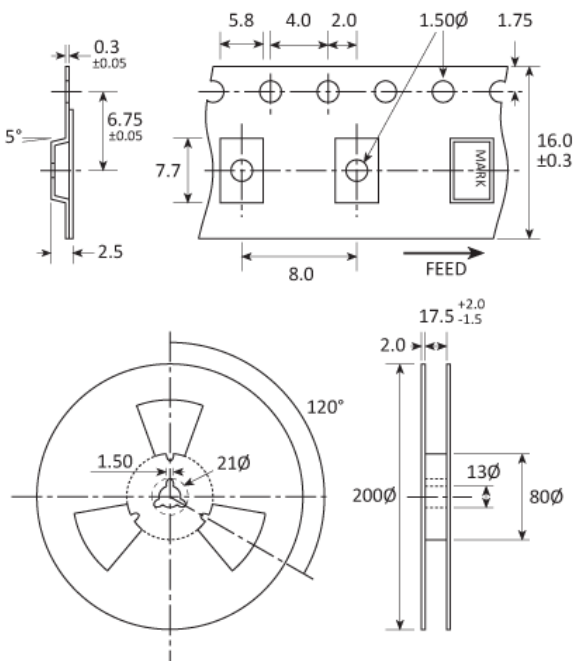
DC = Date Code in YM, eg. "GF" = Jun 2017

| | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 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 (or not applicable)


CONSTRUCTION

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


MATERIAL COMPOSITION


 Lead-free (< 0.1% by weight)


 RoHS 2 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](#)

 Nominal Net Mass: 160mg

COMPOSITION

MCDFamily GXO-L72.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.

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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.