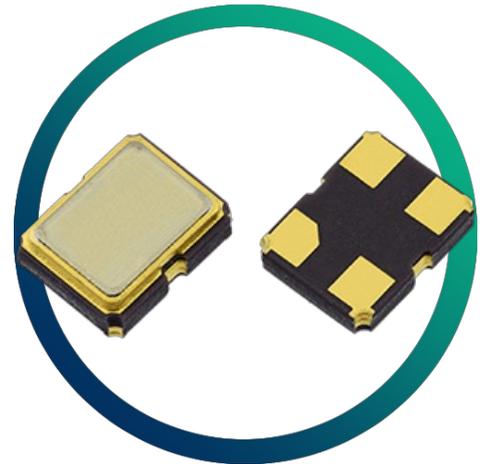


GXO-3306L

3225 Package Ultra-Low Jitter 3.3V

Oscillator



- Excellent phase noise & jitter characteristics
- Enable / disable tristate function
- Small and medium quantities also available

CONFIGURABLE OPTIONS

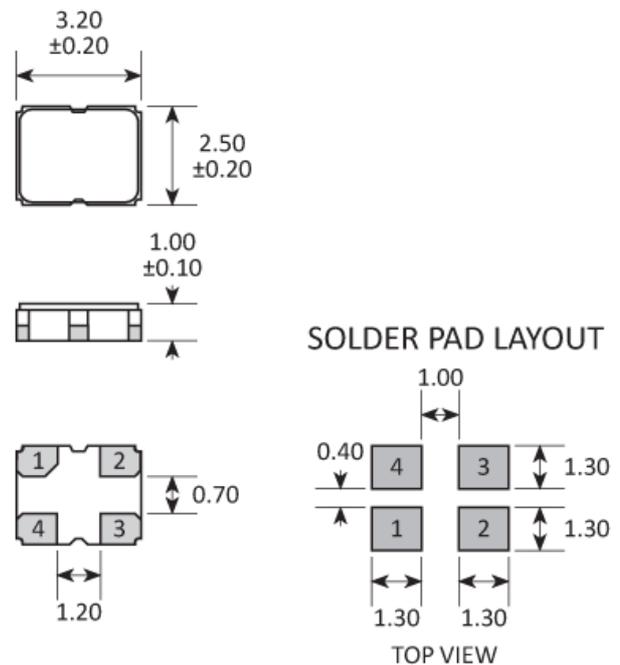
Parameter	Option Code
Frequency	
Frequency stability * see note below	
Any	
±25ppm	A
±50ppm	B

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

SPECIFICATIONS

Frequency range	20.0 ~ 50.0MHz
Dimensions	3.2 x 2.5 x 1.1mm
Operating temperature range	-40 to +85 °C
Storage temperature range	-55 to +125 °C
Supply voltage (V _{DD})	+3.3V (±10%)
Supply current	20mA max
Output logic levels	'0' level = 10%V _{DD} max '1' level = 90%V _{DD} min
Start up time	5ms max
Waveform symmetry	45:55 max @ 50%V _{DD}
Driving ability	15pF CMOS
Rise / fall time	5ns max
Enable / disable function	Tristate (control via pad 1)
Phase jitter RMS * see note below	0.04ps typ (12kHz ~ 5.0MHz)
Phase noise (typ @ 24.576MHz)	-101dBc/Hz @ 10Hz -132dBc/Hz @ 100Hz -155dBc/Hz @ 1kHz -166dBc/Hz @ 10kHz -174dBc/Hz @ 100kHz -175dBc/Hz @ 1MHz -175dBc/Hz @ 5MHz

*** For ultimate performance, a high frequency decoupling capacitor should be connected between supply and ground as close to the oscillator supply pad as possible. Low frequency decoupling should be placed next to the supply source.**

PACKAGE DRAWING


PAD	CONNECTION
1	Enable / disable
2	Ground
3	Output
4	Supply

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the GXO-3306L 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.

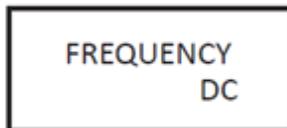
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

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 (pad 3)
Open	Enabled
'1' level, >0.7Vdd	Enabled
'0' level, <0.3Vdd	High Impedance

MARKING

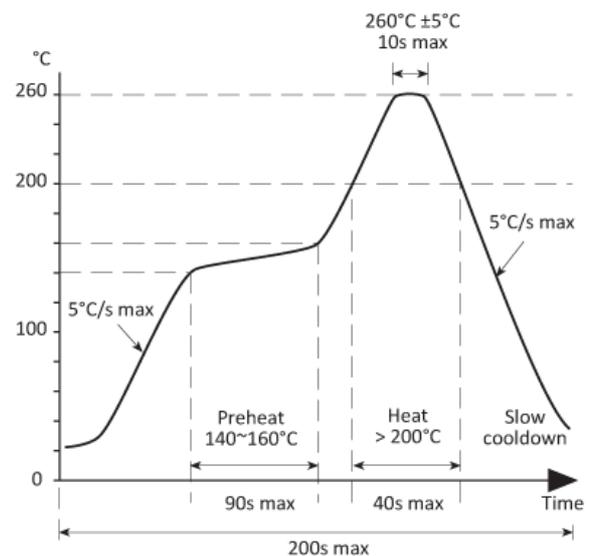


Marking type: Laser

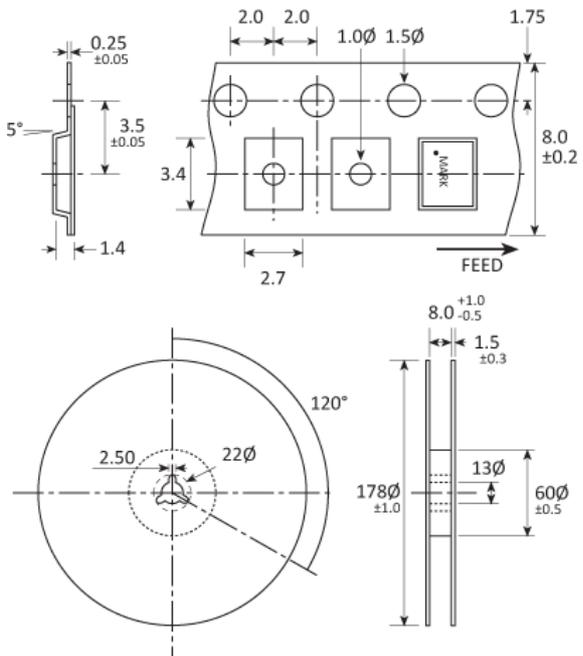
DC = Date Code in YM, eg. "GF" = Jun 2017

	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

CONSTRUCTION

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

HANDLING & STORAGE



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



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

COMPLIANCE



Lead-free (< 0.1% by weight)



RoHS 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](#)