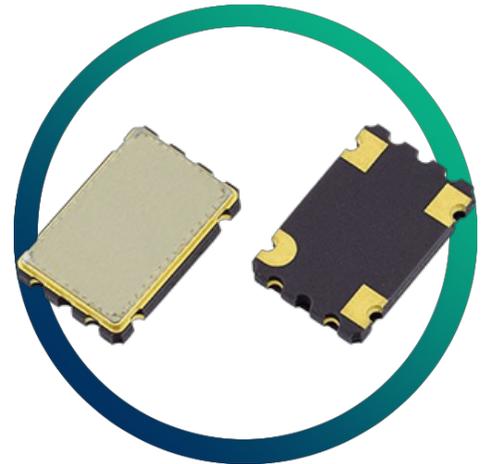


# GXO-7506G

## 7550 Package Ultra-Low Jitter 1.8V Oscillator



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

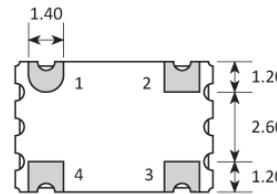
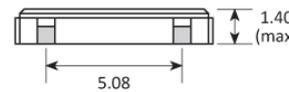
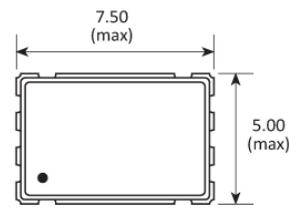
### CONFIGURABLE OPTIONS

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

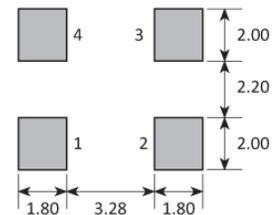
\* Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change, shock and vibration.

**SPECIFICATIONS**

Frequency range	12.0 ~ 50.0MHz
Dimensions	7.5 x 5.0 x 1.4mm
Operating temperature range	-40 to +85 °C
Storage temperature range	-55 to +125 °C
Supply voltage ( $V_{DD}$ )	+1.8V ( $\pm 5\%$ )
Supply current	7mA max
Logic levels	'0' level = 20% $V_{DD}$ max '1' level = 80% $V_{DD}$ min
Start up time	10ms max
Waveform symmetry	40:60 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

**PACKAGE DRAWING**


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



TOP VIEW

Dimensions in mm

\* 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.

## ORDERING INFORMATION

To request a quotation for the GXO-7506G 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).

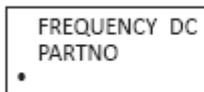
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

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

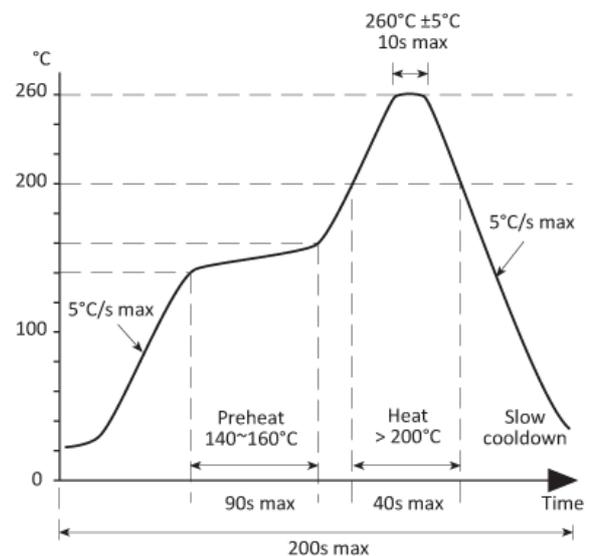


• Pin 1  
Marking type: Laser

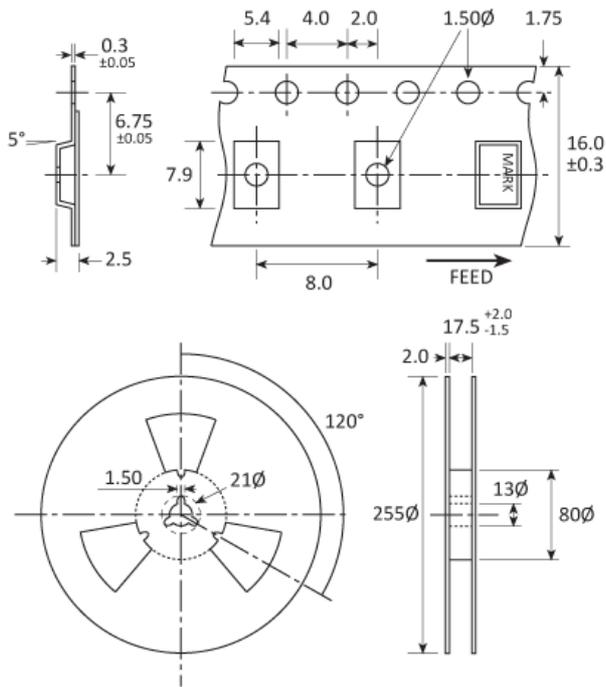
DC = Date Code in YM, eg. "GF" = Jun 2017

	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

## 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](#)