

Scale 3:1

## Specifications

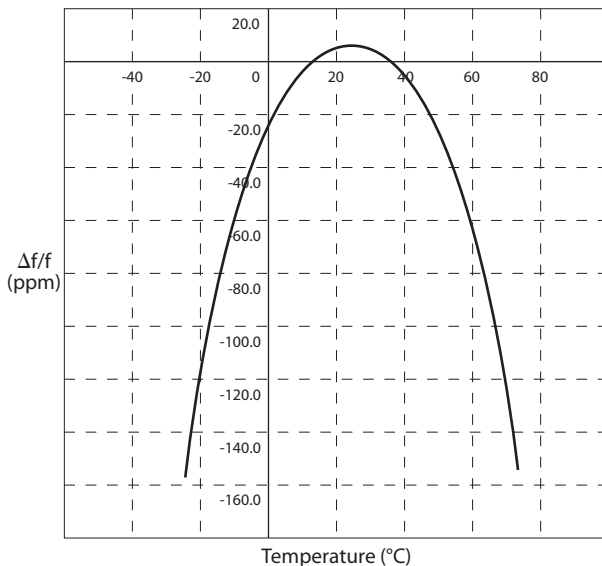
Parameters	Product	Option Codes
	GXO-4301	
Frequency:	32.768kHz	■
Calibration tolerance:	±10ppm ±20ppm Other	<input type="checkbox"/> ■ <input type="checkbox"/>
Frequency stability:	+10 ~ -120ppm (-20 to +70°C)	■
Operating temperature range:	-40 to +85°C	■
Storage temperature range:	-55 to +125°C	■
Supply voltage (V <sub>DD</sub> ):	1.3 ~ 5.5V	■
Supply current:	1.5µA max (V <sub>DD</sub> = 3.3V, no load)	■
Driving ability:	15pF CMOS	■
Output voltage:	'0' level (I <sub>VOL</sub> ) = 0.4V max '1' level (I <sub>VOH</sub> ) = V <sub>DD</sub> - 0.4V min	■ ■
Start up time:	1s max (V <sub>DD</sub> =3.3V) 3s max (V <sub>DD</sub> =1.3~5.5V)	■ ■
Rise / fall times:	200ns max (10%~90%V <sub>DD</sub> )	■
Waveform symmetry:	40:60 @ 50%V <sub>DD</sub>	■
Enable / disable function:	Tristate (control via pad 1)	■
Stand-by current:	250nA max	■

■ Standard. □ Optional - Please specify required code(s) when ordering

## Features

- ▶ 32.768kHz Oscillator
- ▶ Extremely low power consumption
- ▶ Enable / disable tristate function
- ▶ Competitive pricing

## Temperature Characteristics



## Ordering Information

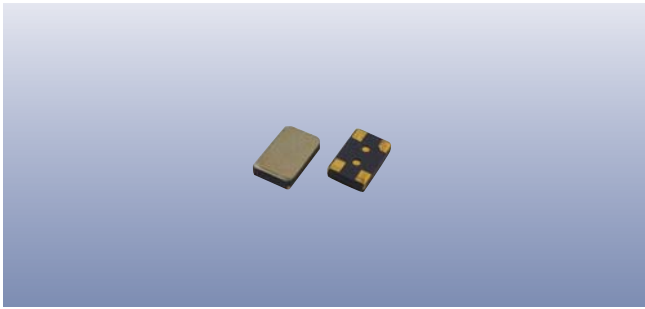
Product name + option code + frequency  
 eg: **GXO-4301/B 32.768kHz** ±20ppm (standard)  
**GXO-4301/A 32.768kHz** ±10ppm

- ♦ Will operate on any supply voltage from +1.3V to +5.5V. Specifications shown are for 3.3V.

## Enable / Disable Function

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

Note: Pad 1 should not be allowed to float.



## Construction

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

## Composition



This product is lead-free, and is fully compliant with the RoHS directive 2002/95/EC



## Packaging & Handling

Production quantities supplied on T & R, 1k or 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.



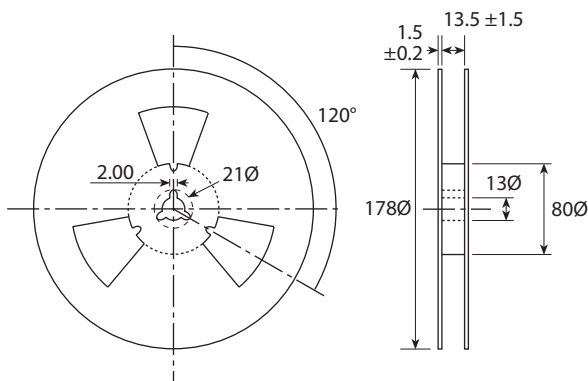
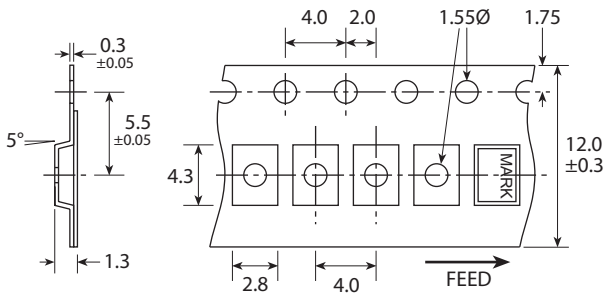
◆ Static sensitive product. Observe proper handling precautions

## Marking

DC FREQUENCY      Marking type: Laser  
DC = Date code in YM, eg "CE" = May 2003

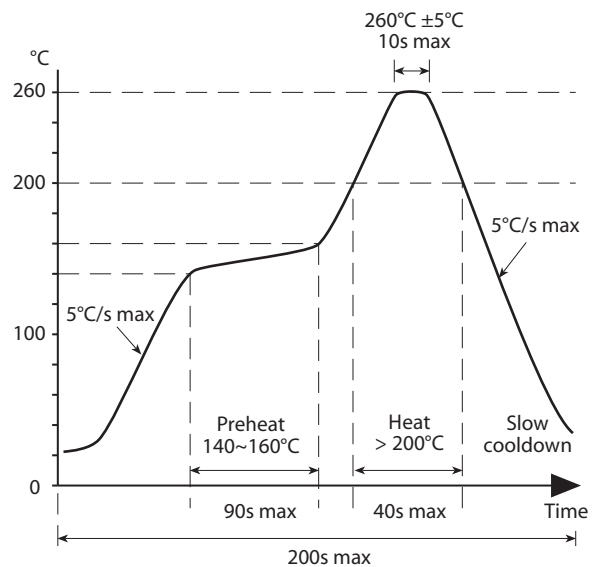
	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

## Tape & Reel Specification



Not to scale. Dimensions in mm. Tolerances ±0.1mm unless otherwise stated

## Soldering Profile



Solder resistance: 260°C x 10 secs x 2.