



## Features

- ▶ **Smallest size SM oscillator**
- ▶ **All ceramic package with gold-plated pads**
- ▶ **High drive capability - up to 50pF**
- ▶ **Enable / disable tristate function**
- ▶ **3.3V option with power saving function**

## Standard Frequencies

Frequencies in MHz		
1.84320	14.31818	32.00000
2.00000	16.00000	33.86880
3.68640	20.00000	36.86400
4.00000	24.00000	40.00000
5.00000	24.57600	44.23680
8.00000	25.00000	48.00000
10.00000	29.49120	50.00000
12.00000	30.00000	

Other frequencies available. Please consult our sales office.

## Enable / Disable Function

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

## Specifications

**GXO-U123S: 5.0V supply, 15pF / 10 LSTTL load**

**GXO-U123H: 5.0V supply, 50pF / 10 TTL load**

**GXO-U123L: 3.3V supply, 15pF / 10 LSTTL load**

Parameters	Variant			Option Codes
	S	H	L	
<b>Frequency range:</b> 1.8432 ~ 50.0MHz	■	■	■	
<b>Frequency stability:</b> ±100ppm ±50ppm	■	■	■	B
<b>Operating temperature range:</b> -10 to +70°C -40 to +85°C	■	■	■	I
<b>Storage temperature range:</b> -40 to +85°C	■	■	■	
<b>Supply voltage (V<sub>DD</sub>):</b> +5.0V (±10%) +3.3V (±10%)	■	■	■	
<b>Supply current (max):</b> 13mA (1.8432 ~ 25.0MHz) 24mA (>25.0 ~ 50.0MHz) 25mA (1.8432 ~ 25.0MHz) 40mA (>25.0 ~ 50.0MHz) 15mA (1.8432 ~ 50.0MHz)	■	■	■	
<b>Logic levels:</b> '0' level = 10%V <sub>DD</sub> max '1' level = 90%V <sub>DD</sub> min	■	■	■	
<b>Start up time:</b> 10ms max	■	■	■	
<b>Waveform symmetry:</b> 40:60 max @ 50%V <sub>DD</sub>	■	■	■	
<b>Driving ability:</b> 10 LSTTL 15pF HCMOS 10 TTL 50pF HCMOS	■	■	■	
<b>Rise / fall time:</b> 10ns max 5ns max 6ns max	■	■	■	
<b>Output enable / disable time:</b> 100ns / 100ns 10ms / 150ns	■	■	■	
<b>Enable / disable function:</b> Tristate (control via pad 1)	■	■	■	

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

## Ordering Information

Product name + variant + option codes (if any) + frequency  
 eg: **GXO-U123H 40.0MHz** 5V, heavy load, ±100ppm -10+70°C  
**GXO-U123L/BI 40.0MHz** 3.3V, ±50ppm -40+85°C  
 Option code X (eg GXO-U123H/X) denotes a custom spec.