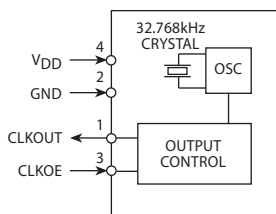


Scale 3:1

Features

- ▶ **Very low power consumption**
- ▶ **Tight frequency tolerance**
- ▶ **Industrial and extended temperature ranges**
- ▶ **High shock and vibration resistance**
- ▶ **World's smallest LF oscillator**

Block Diagram



Enable / Disable Function

Input (pad 3)	Output (pad 1)
'1' level	Enabled
'0' level	Disabled

Note: Pad 3 should not be allowed to float.

Specifications

Parameters	Product	Option Codes
	OV7604C7	
Frequency:	32.7680kHz	■
Calibration tolerance: ($V_{DD} = 3.0V$)	$\pm 10ppm$	□
	$\pm 20ppm$	■
	Other	□
Turnover temperature (T_O):	$+25^{\circ}C \pm 5^{\circ}C$	■
Frequency / temp coefficient:	$-0.035ppm/^{\circ}C^2 \pm 10\%$	■
Operating temperature range:	-40 to $+85^{\circ}C$	■
	-40 to $+125^{\circ}C$	□
	-55 to $+125^{\circ}C$	□
Storage temperature range:	-55 to $+125^{\circ}C$	■
Supply voltage (V_{DD}):	Operable from 1.2 ~ 5.5V	■
Supply current (backup mode):	0.3 μ A typ, 0.5 μ A max ($V_{DD} = 3.0V$, output disabled)	■
Logic levels:	'0' level = 0.4V max	■
	'1' level = $V_{DD} - 0.4V$ min	■
Waveform symmetry:	40:60 max @ 50% V_{DD}	■
Driving ability:	15pF HCMOS	■
Voltage coefficient:	$\pm 1.5ppm/V$ max	■
Rise / fall time:	70ns max	■
Start up time:	500ms max @ 25 $^{\circ}C$	■
Enable / disable function:	Control via pad 3	■
Ageing:	$\pm 3ppm$ max first year @ 25 $^{\circ}C$	■
Shock and vibration resistance:	$\pm 5ppm$, 5,000g, 0.3ms, sine	■
	$\pm 5ppm$, 20g, 10.0 ~ 2,000Hz	■
Soldering condition:	Reflow, 260 $^{\circ}C$, 20 sec max	■

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

Ordering Information

Product + option code

eg: **OV7604C7/B** $\pm 20ppm$ (standard)

Option code X (eg OV7604C7/X) denotes a custom spec.

- ◆ Available on T&R - 1k, 3k, 7k or 14k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.