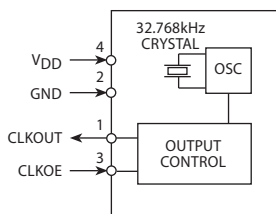


Scale 3:1

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: ( $V_{DD} = 3.0V$ )	±10ppm ±20ppm Other	□ ■ □ A B specify
Turnover temperature ( $T_O$ ):	+25°C ±5°C	■
Frequency / temp coefficient:	-0.035ppm/°C <sup>2</sup> ±10%	■
Operating temperature range:	-40 to +85°C -55 to +125°C	■ □ M
Storage temperature range:	-55 to +125°C	■
Supply voltage ( $V_{DD}$ ):	Operable from 1.2 ~ 5.5V	■
Supply current (backup mode):	0.3µA typ, 0.5µA 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:	±1.5ppm/V max	■
Rise / fall time:	70ns max	■
Start up time:	500ms max @ 25°C	■
Enable / disable function:	Control via pad 3	■
Ageing:	±3ppm max first year @ 25°C	■
Shock and vibration resistance:	±5ppm, 5,000g, 0.3ms, sine ±5ppm, 20g, 10.0 ~ 2,000Hz	■ ■
Soldering condition:	Reflow, 260°C, 20 sec max	■

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

Ordering Information

Product + option code  
eg: **OV7604C7/B** ±20ppm (standard)  
Option code X (eg OV7604C7/X) denotes a custom spec.

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