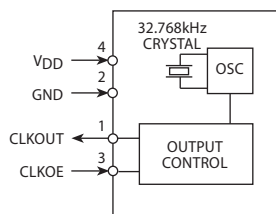


PAD	CONNECTION
1	Output
2	Ground
3	Enable/Disable
4	Supply

Features

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

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)	±20ppm Other	■ □ B specify
Turnover temperature (T ₀):	+25°C ±5°C	■
Frequency / temp coefficient:	-0.035ppm/°C ² ±10%	■
Operating temperature range:	-40 to +85°C -40 to +125°C	■ □ E
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 CMOS	■
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, ½ 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 - 1k or 3k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.