■ General Description

The OCH181 developed using CMOS technology, is a bipolar detection type Hall IC with a high-sensitivity that operates on a low current. In the Hall IC, a Hall element, an offset cancel circuit, an amplifier circuit, a sample and hold circuit, a Schmidt circuit, and output stage FET are integrated on a single chip housed in a small package by IC technique. The output voltage changes when the OCH181 detects the intensity level of flux density and a polarity change. Using the OCH181 with a magnet makes it possible to detect rotation in various devices.

The OCH181 is available in DFN2020-6L packages. Operating temperature range of the OCH181 is from -40°C to 85°C.

■ Features

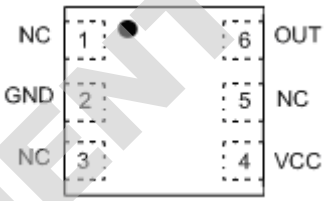
- Micro-power consumption ideal for battery-powered applications
- High sensitivity
- Input Voltage low to 2.2V
- Chopper stabilized amplifier stage
- Good RF noise immunity
- Small package: DFN2020-6L, CMOS output. (no pull-up resistance)
- ESD (HBM) ＞ 4KV

■ Applications

- Magneto-electric conversion switch
- Jog dials, wheel keys
- Trackballs, mouse devices
- Plaything, portable games

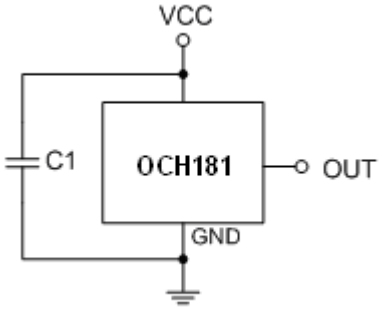
■ Pin Configuration

(1) DFN2020-6L
(Top view)



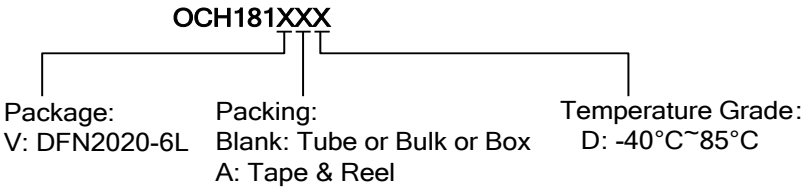
Pin Name	Pin No.	Pin Function
	DFN2020-6L	
VCC	4	Power Supply Input
GND	2	Ground
OUT	6	Output Pin
N.C	1, 3, 5	Not Connected

■ Typical Application Circuit



Note: C1 is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 10nF~100nF.

■ Ordering Information



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