■ General Description

The OCH211, a one-chip composed of hall sensor and output coil drivers, applied to 2-phase DC motor. The high sensitivity of Hall effect sensor is suitable for motors from mini-type CPU coolers to blowers and DC fans. Typical operation current is 0.4A and operating voltage range is wide. FG signal, an open collector, provides a square waveform output for the detection of the motor speed.

Using few external components, OCH211, a high performance integrated IC, is designed for a 2-phase DC motor circuit. The circuit diagram of the typical application example is as below.

OCH211 is available in SIP-4L package and is rated over the -40°C to 125°C.

■ Features

- One-chip Solution (Hall Element + Driver)
- Input Voltage Range : 3.0V to 20V
- For DC motor / Fan Systems
- Low Cost Solution
- High Sensitivity Hall Sensor
- Output Continues Current: 400mA
- Built-in FG output
- Low quiescent supply current 2.2 mA
- Over Thermal Protection
- RoHS Compliant
- Available in SIP-4L Packages

■ Applications

- Dual-Coil Brushless DC Motor
- Dual-Coil Brushless DC Fan
- DC Brushless Fan
- DC Brushless Motor
- Office Automated Equipment
- Brown-Goods
- Home Applications
- Car Audio Cooling Fan
- Speed Measurement

■ Pin Configuration

(Top View)

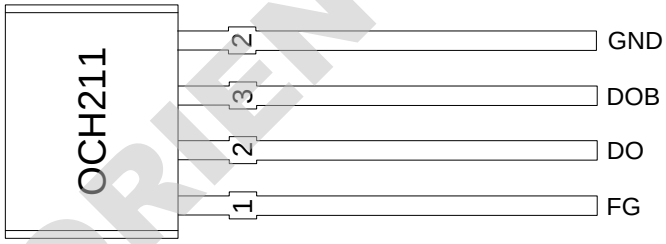

Figure 1, Pin Assignments

Pin Name	Pin No.	Description
FG	1	FG Signal Output
DO	2	Open Drain Output 1
DOB	3	Complementary Open Drain Output 2
GND	4	Ground

■ Ordering Information

Part Number	Package Type	Packing Qty	B_{OP} (Gauss)	B_{RP}(Gauss)	Temperature	Eco Plan	Lead
OCH211MD	SIP-4L	1000pcs/Bag	25	-25	-40 ~ 125℃	ROHS	Cu

■ Typical Application Circuit

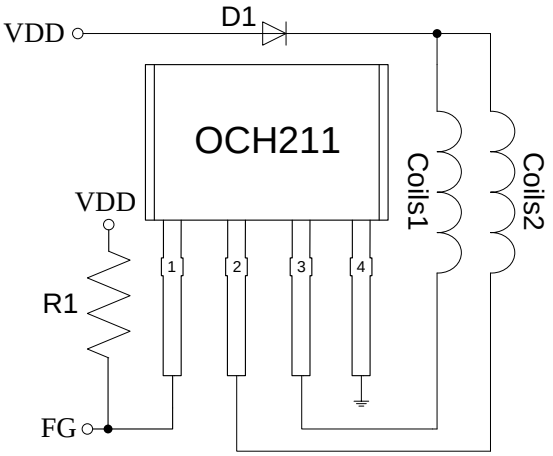

Figure 2, Typical Application Circuit of OCH211

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