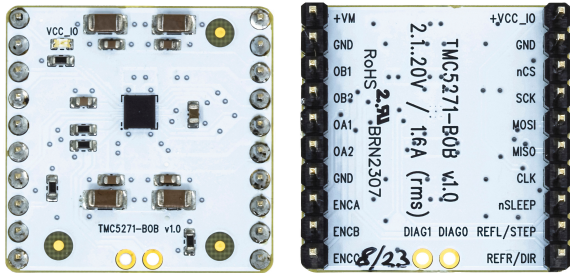


TMC5271-BOB User Guide

19-101829, Rev 0, 12/23

Module Top/Bottom View



Features and Additional Resources

- TMC5271 Stepper Motor Driver & Controller
- Supply Voltage 2.1V to 20V DC
- I_{phase} up to 1.6A_{RMS}
- **StealthChop2** Silent PWM Mode
- **StallGuard4** Sensorless Motor Load Detection
- **TriCoder** Sensorless Standstill Steploss Detection and Full Step Encoder
- Board Width 1.0", Board Height 1.0"
- 2 x 10 Pin 0.1" Header Rows for Connectors
- Link to [Additional Information and IC Data Sheet](#)

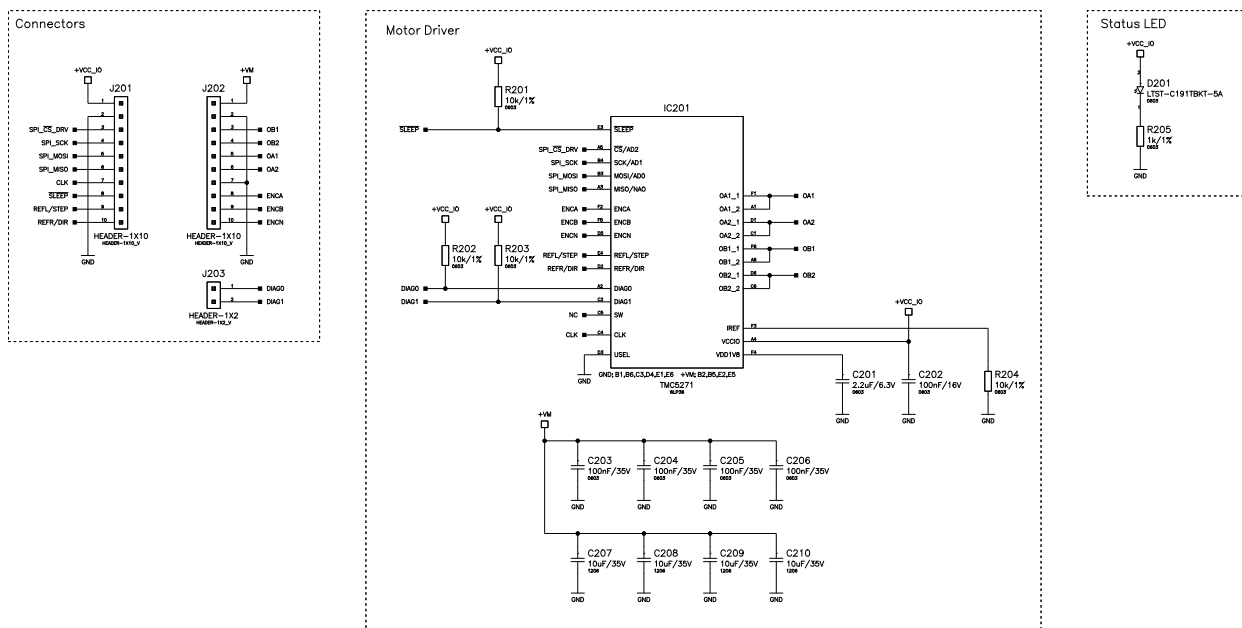
Pin List

Pin	Left Header	Right Header
1	+VCC_IO	+VM
2	GND	GND
3	SPL_CS _n	B1 (Motor Phase B)
4	SPL_SCK	B2 (Motor Phase B)
5	SPL_MOSI	A1 (Motor Phase A)
6	SPL_MISO	A2 (Motor Phase A)
7	CLK	GND
8	SLEEP _n	ENCA
9	REFL/STEP	ENCB
10	REFR/DIR	ENCN
TP	DIAG0	DIAG1

Bill of Materials

Pcs.	Value	Footprint	Description
1	1k/1%	0603	Resistor
4	10k/1%	0603	Resistor
1	2μ2, 6.3V	0603	Capacitor
4	10μ, 35V	0603	Capacitor
1	100nF, 16V	0603	Capacitor
4	100nF, 35V	0603	Capacitor
1	Blue/0603	0603	LED
1	TMC5271	TSSOP38	ADI Trinamic Stepper Motor Driver

Schematics



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