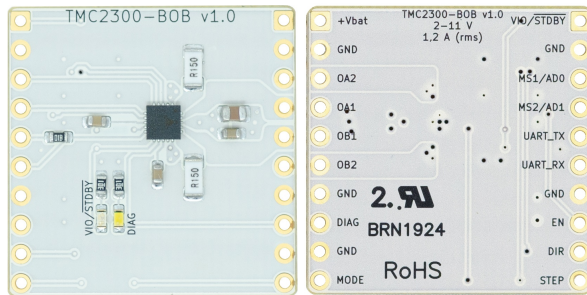


# TMC2300 BOB

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## Module Top View



## Pin List

Left	Signal	Right	Signal
1	+VCC_IO	11	+VBAT
2	GND	12	GND
3	MS1_AD0	13	OA2 (Motor Phase A)
4	MS2_AD1	14	OA1 (Motor Phase A)
5	UART_TX	15	OB1 (Motor Phase B)
6	UART_RX	16	OB2 (Motor Phase B)
7	GND	17	GND
8	EN	18	DIAG
9	DIR	19	GND
10	STEP	20	MODE

## Features and additional Resources

- TMC2300 low voltage stepper motor driver
- Supply voltage 2-11V DC, 2.0A coil current (peak)
- Step/Dir Interface with 2, 4, 8, 16 or 32 microstep pin setting
- **Smooth Running** 256 microsteps MicroPlyer™ interpolation
- StealthChop2™ silent motor operation
- StallGuard4™ in StealthChop mode
- Integrated Pulse Generator for standalone motion
- Choice of QFN, TQFP and HTSSOP packages
- Board width 1.0", board height 1.0"
- 2x10 pin 0.1" header rows for pins/connectors
- Link to [additional information and IC data sheet](#)

## Bill of Materials

Pcs.	Value	Footprint	Description
2	R0603/300R/1%	0603	Resistor
1	R0603/1K/1%	0603	Resistor
2	R1206/0R150/0.5W	1206	Resistor
1	10uF/25V/0805	0805	Capacitor
3	100nF/25V/0603	0603	Capacitor
1	blue/0603	0603	LED
1	white/0603	0603	LED
1	TMC2300-LA	QFN20,3x3mm	Trinamic Stepper Motor Driver

## Schematics

