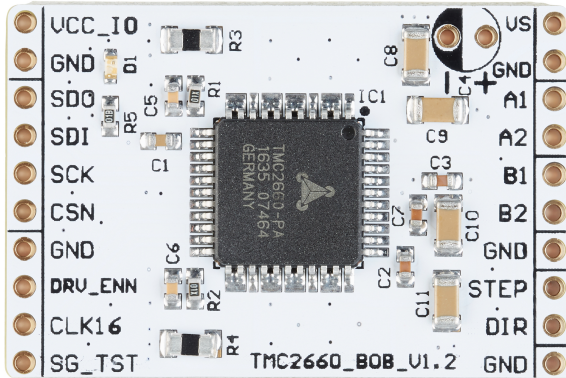


# TMC2660-PA BOB Description

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## Module Top View



## Features and additional Resources

- TMC2660-PA stepper power driver
- Supply voltage 9-28V,  $I_{phase,RMS}$  up to 2.0A
- Config via SPI, control via step/direction
- Optional electrolyte cap at supply rail
- Optional cooling from bottom side
- Board width 1.5", board height 1.0"
- 2x10 pin 0.1" header rows for pins/connectors
- Link to [additional information and IC data sheet](#)
- Link to [evaluation kit](#)

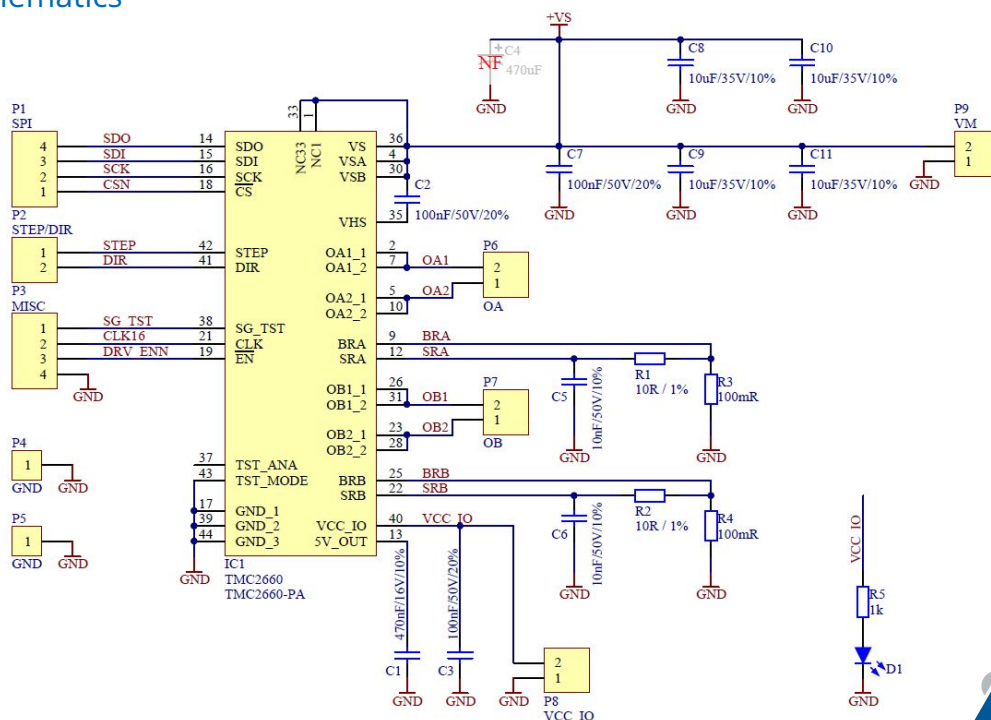
## Pin List

| Left | Signal                               | Right | Signal |
|------|--------------------------------------|-------|--------|
| 1    | VCC_IO (3.3V or 5V)                  | 11    | VS     |
| 2    | GND                                  | 12    | GND    |
| 3    | SDO (data out)                       | 13    | OA1    |
| 4    | SDI (data in)                        | 14    | OA2    |
| 5    | SCK (up to 6MHz with external CLK)   | 15    | OB1    |
| 6    | CSN (active low)                     | 16    | OB2    |
| 7    | GND                                  | 17    | GND    |
| 8    | DRV_ENN (active low)                 | 18    | STEP   |
| 9    | CLK16 (pull to GND for internal CLK) | 19    | DIR    |
| 10   | SG_TST (see datasheet)               | 20    | GND    |

## Bill of Materials

| Pcs. | MPN                | Value           | Footprint        | Description                      |
|------|--------------------|-----------------|------------------|----------------------------------|
| 1    | MC0603X474K160CT   | 470nF,16V,10%   | 0603             | Cap, Multicomp                   |
| 3    | MC0603F104M500CT   | 100nF,50V,20%   | 0603             | Cap, Multicomp                   |
| 2    | MC0603B103K500C    | 10nF,50V,10%    | 0603             | Cap, Multicomp                   |
| 4    | GRM31CC8YA106KA12L | 10uF,35V,10%    | 1206             | Cap, Murata                      |
| 1    | LTST-C191TBKT-5A   | 20mA,2.8V,465nm | 0603             | LED, Lite-On                     |
| 1    | TMC2660-PA         | TMC2660-PA      | PQFP44,10x10,0.8 | Driver, <a href="#">TRINAMIC</a> |
| 2    | MCWR06X10R0FTL     | 10R,1%          | 0603             | Res, Multicomp                   |
| 2    | RCWE1210R100FKEA   | 0.10R,1W,1%     | 1210             | SenseR                           |
| 1    | MC0603W060311K     | 1k              | 0603             | Res, Multicomp                   |

## BOB Schematics



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