Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
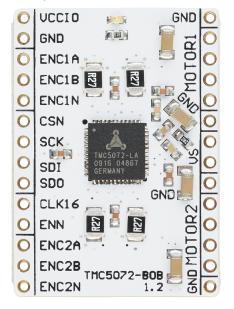

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TMC5072 BOB Description

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Module Top View

Features and additional Resources

- TMC5072-LA dual stepper driver and controller
- Supply voltage 5-26V, $I_{phase,RMS}$ up to 2x1.1A
- Configuration and control via SPI
- Use off-board electrolyte cap with your supply
- 1x incremental encoder input per motor axis
- Board width 1.0", board height 1.4"
- 2x14 pin 0.1" header rows for pins/connectors
- Link to additional information and IC data sheet
- Link to evaluation kit

Bill of Materials

Pcs.	MPN	Value	Footprint	Description
1	MC0603B223K500CT	22nF	0603	Cap, Multicomp
5	MC0603F104M500CT	100nF	0603	Cap, Multicomp
1	MC0603X474K160CT	470nF	0603	Cap, Multicomp
1	MC0603X475K100CT	4.7uF	0603	Cap, Multicomp
4	MC1206X106K250CT	10uF	1206	Cap, Multicomp
1	LTST-C191TBKT-5A	20mA,2.8V,465nm	0603	LED, Lite-On
1	TMC5072-LA	TMC5072-LA	QFN48,7x7,0.5	Controller, TRINAMIC
4	RCWE1206R270FKEA	0R27/1%	1206	Res, Vishay
1	MC0063W060312R2	2R2/1%	0603	Res, Multicomp
1	MC0063W060311K	1k	0603	Res, Multicomp

Pin List

Left	Signal	Right	Signal
1	VCCIO (3.3V or 5V)	15	GND
2	GND	16	01A1 (Motor 1)
3	ENC1A	17	01A2
4	ENC1B	18	01B1
5	ENC1N	19	01B2
6	CSN	20	GND
7	SCK	21	VS (5 to 26V)
8	SDI	22	VS (5 to 26V)
9	SDO	23	GND
10	CLK16 (pull to GND for internal CLK)	24	02B2 (Motor 2)
11	ENN	25	02B1
12	ENC2A	26	02A2
13	ENC2B	27	02A1
14	ENC2N	28	GND

TRINAMIC
MOTION CONTROL

BOB Schematics