

BIPOLAR STEPPER MOTOR

Kit is based on A3967SLB bipolar stepper driver IC which is a complete microstepping motor driver with built-in translator. It is designed to operate bipolar stepper motors in full-, half-, quarter-, and eighth-step modes, with output drive capability of 30 V and 750 mA. Current adjustable over 150mA to 750mA range. This kit drives 4 wires Bipolar stepper motor and also can drive 6 or 8 wires stepper as bipolar.

Supply 12V to 24V DC

Motor Load 750mA

On board 5V regulator

Micro stepping selection via MS1 and MS2 Pins

Easy interface with microcontroller

On board power indication

On Board preset for current adjustments

Sleep, Enable, MS1, MS2, Ref, Step, Dir pins broken out for easy interface

All inputs are pulled high

MG1:-Bipolar Stepper Motor

CN1:-DC Supply 12V to 24V DC

CN2:-Inputs for interface

D1:-Power indicator

PR1:-Current Adjust 150mA to 750mA

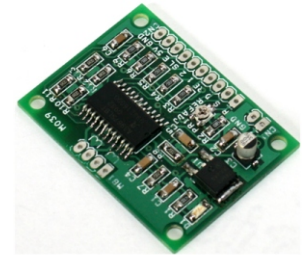


Table 1. Microstep Resolution Truth Table

MS ₁	MS ₂	Resolution
L	L	Full step (2 phase)
H	L	Half step
L	H	Quarter step
H	H	Eighth step

CN1 Interface pin connections

1Ref Voltage test pin

2Step pulse input

3Direction input High or Low (0-5V)

4Reset

5Micro stepping selection

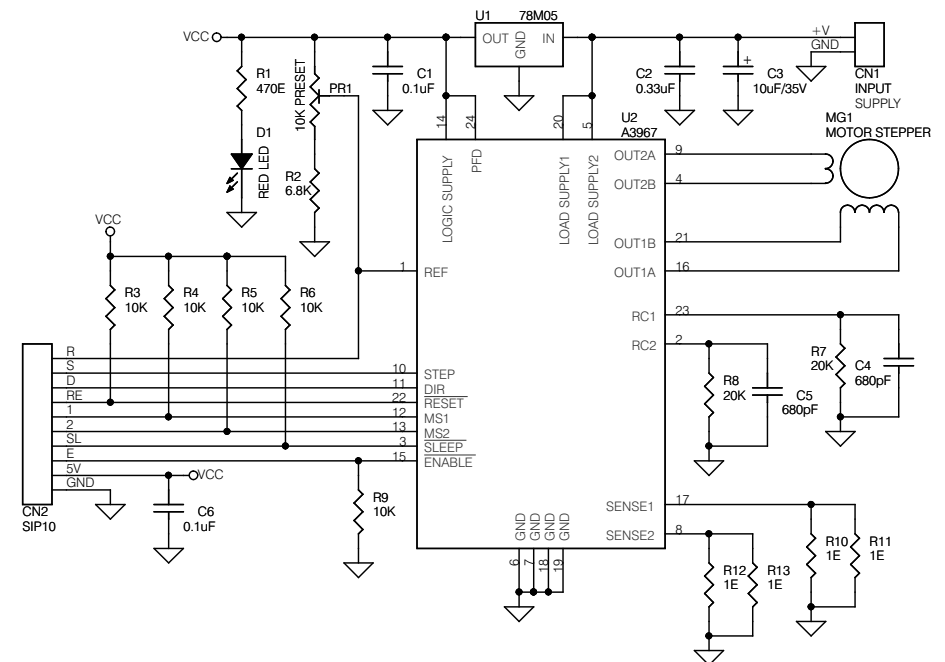
6Micro stepping selection

7Sleep

85V Aux.

9Ground supply

SR.	QTY.	REFERENCE	DESCRIPTION
1	1	CN1	2 PIN BERG CONNECTOR
2	1	CN2	10 PIN BERG CONNECTOR
3	2	C1,C6	0.1uF
4	1	C2	0.33uF
5	1	C3	10uF/35V
6	2	C4,C5	680pF
7	1	D1	RED LED
8	1	MG1	4 PIN BERG CONNECTOR
9	1	PR1	10K PRESET
10	1	R1	470E
11	1	R2	6.8K
12	5	R3,R4,R5,R6,R9	10K
13	2	R7,R8	20K
14	4	R10,R11,R12,R13	1E
15	1	U1	78M05
16	1	U2	A3967



SILK SCREEN TOP

