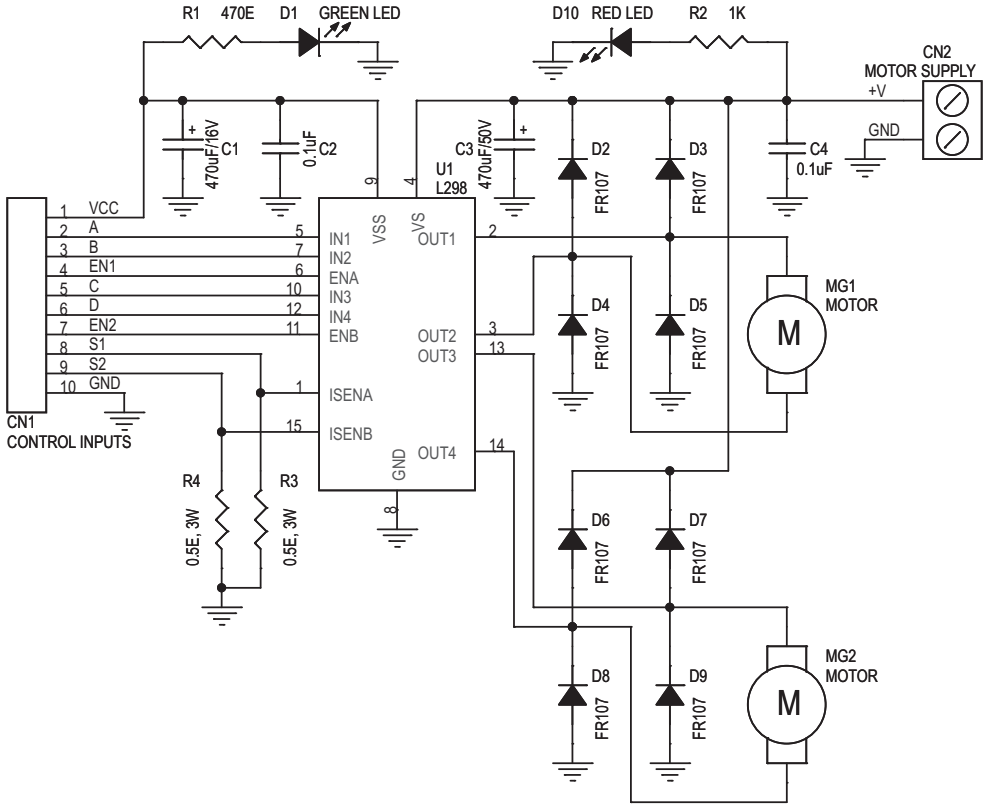
DUAL MOTOR L298 H-BRIDGE CONTROL

Dual Motor L298 H-Bridge Control project can control two DC motors connected to it.
The circuit has been designed around populer dual H-Bridge L298 from ST.

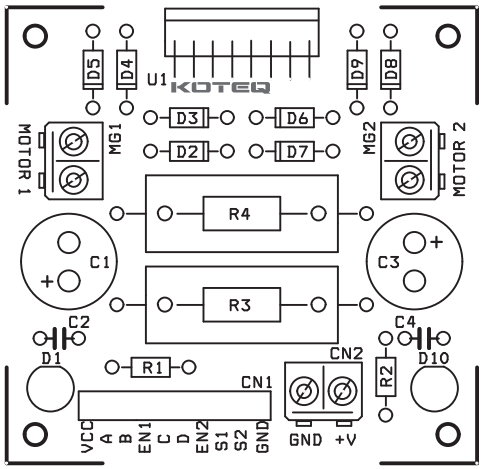
- Motor supply : 7 to 46 VDC
- Control Logic Supply : Standard TTL logic level
- Output DC drive to motor : up to 2 A each
- Current Sense Output available
- Enable and direction control pins available
- External diode bridge provided for output
- Heatsink for IC
- Power-On LED indicator
- Screw terminal connector for easy input supply (PWR) / output (Motor) connection
- Four mounting holes of 3.2 mm each
- PCB dimensions 61 mm x 63 mm

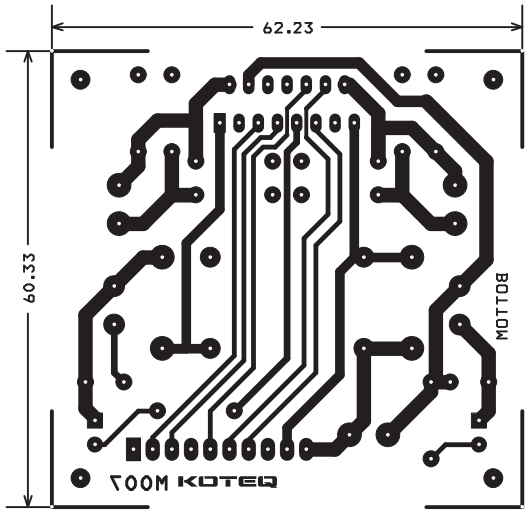


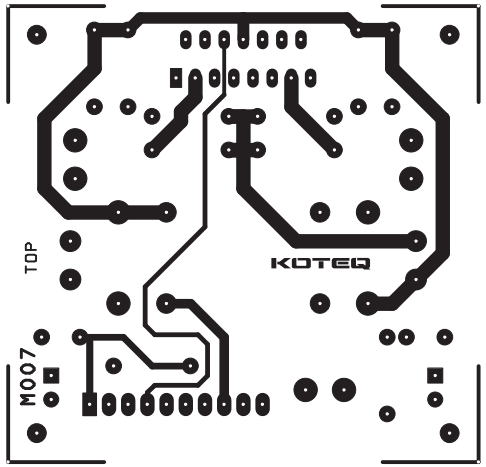
Cn1 Connector : Control Signals and Logic Supply
CN2 Connector : Motor Supply 7 to 46 VDC, 4 A Current
MG1 Connector : DC Motor 1
MG2 Connector : DC Motor 2
D1 LED : Logic Supply Indication
D10 LED : Motor Supply Indication

Controls :
A, B : H-L Input MG1
C, D : H-L Input MG2
EN1 : Enable Motor 1
EN2 : Enable Motor 2
S1 : Current Sens Motor 1
S2 : Current Sens Motor 2
VCC : 5 VDC Logic Supply Input

H : Logic High
L : Logic Low







DUAL MOTOR L298 H-BRIDGE CONTROL

SR.	QTY.	REF.	DESCRIPTION
1	1	CN1	10 PIN BERG CONNECTOR
2	1	CN2	2 PIN SCREW TERMINAL CONNECTOR
3	1	C1	470uF/16V
4	2	C2,C4	0.1uF
5	1	C3	470uF/50V
6	1	D1	GREEN LED
7	8	D2 TO D9	FR107
8	1	D10	RED LED
9	2	MG1,MG2	2 PIN SCREW TERMINAL CONNECTOR
10	1	R1	470E
11	1	R2	1K
12	2	R3,R4	0.5E, 3W
13	1	U1	L298
14	1	HEATSINK	HS09045
15	1	SCREW	SC02909
16	1	NUT	NT02900