TO-220 (Single
GND

1. Input
2. GND
3. Output

Battery (7.4V)

Voltage Reg

5V

GND
0
1
2
3
4
5
6
7
8
9
10
11
12

Teensy 3.2

Vin
Agnd
3.3V
23
22
21
20
19
18
17
16
15
14
13

E1
E2
E3
E4
R1
R2
R3
R4

M1

M1 en
M1 F
Ln1
GND
GND
Ln2
M1 R
P IN

Motor Driver

+5V
M2 R
Ln1
GND
GND
Ln2
M2 F
M2en

M2

5V

E1   E2   E3   E4

Note: emitters and
receivers will be next
to each other
//short pin = Powerin

Q5   D

G   Flat View

S

33 Ω   33 Ω   33 Ω   33 Ω

Q1   Q2   Q3   Q4

23   22   21   20

47 kΩ   47 kΩ   47 kΩ   47 kΩ

GND

3.3V
(Teensy)

R1   R2   R3   R4

19   18   17   16

1.8 kΩ   1.8 kΩ   1.8 kΩ   1.8 kΩ

AGND