TI LP2985A-33DBVT 3.3V LDO

+VIN

U2
SM

Vin   Vout
5
EN   Cbyp
3   4
GND
2

TP1 - vcc

C1
C0603
SM
470pf

+3.3V

C2   C3   C4
C0603   C0603   C0603
SM   SM   SM
2.2uf   2.2uf   0.1uf

GND

+3.3V

R4a
SM

STBY

PWM

R4b
SM

A1   Y1
1   6
GND   Vcc
2   5
A2   Y2
3   4
U3
NC7WZ17 Dual Buffer

GND

+3.3V

IN2

R4c
SM

R4d
SM

IN1

A1   Y1
1   6
GND   Vcc
2   5
A2   Y2
3   4
U4
NC7WZ17 Dual Buffer

GND

+3.3V

Vcc
STBY

IN1
IN2
PWM

U1
TB6593FNG
SM

VM4
VM3
VM1
VM2

Out1
Out1
Out2
Out2

PGND1
PGND2
PGND3
PGND4
PGND5
PGND6

GND

GND

+VIN   C7   C8
        10uf   10uf
        16V   16V

GND

MOTOR
HUB-Mot-Pad
SMP

C6
C0603
SM
0.1uf
50V

CONN1
Micromatch 8 way SMD header

+VIN

1 GND
2 +VIN
3 IN1
4 IN2
5 PWM
6 STBY
7 ChA
8 ChB

GND

+3.3V

R2   10k
R0603 1%
SM

ra

QRE1113 Dial 32
qei
QEI

Collector   7   Emitter
                        GND

Cathode   Anode
GND

S1b

+3.3V

C5
C0603
SM
0.1uf

GND

R5
1k   R0603
5%   SM

R6
1k   R0603
5%   SM

ChA

ChB

Y1   A1
6   1
Vcc   GND
2
Y2   A2
4   3
U5
NC7WZ17 Dual Buffer

+3.3V

R3   10k
R0603 1%
SM

rb

Collector   3   Emitter
                        GND

Cathode   Anode
2

S1a

QRE1113 Dial 32
qei
QEI

+3.3V

R1
R0603
SM

43R
1%