NR8040T100M

SIGNAL_HV
VIN
GND
3
2
1

U$3 10uH
LED+

VIN

EEE-1HA470XP
C3
47uF 63V

C4
4.7uF 80V

GND   GND

SIGNAL_HV
VIN
GND
3
2
1

R2
140K

LED-PWM

U$1
1 VIN   SW   8
2 TON   BOOT 7
3 EN   GND 6*2
4 CS   VCC 5   VCC6211
A6211

C5
0.1uF

C7
NP

Snubber
NP
R7

B360A-13-F
D1
60V 3A

C1
0.1uF

GND   GND   GND   GND

LED-

SIGNAL
SJ1
LED-PWM

JUMPER-PAD-2-NO

R1
0.082 1W

GND

VCC

LED-PWM MISO
TEMP   SCK
RESET   RESET

J1
1 2 +5
3 4 MOSI   SIGNAL
5 6 GND

AVR_SPI_PRG_6PTH

GND

SIGNAL_HV

R6
15K 1/5W

VCC
C8
0.1uF

GND

VCC

U1
8 VCC   PB0(MOSI) 5   SIGNAL
   PB1(MISO) 6   LED-PWM
   PB2(SCK/ADC1) 7   TEMP
   PB3(ADC3) 2
   PB4(ADC2) 3
4 GND   PB5(NRES) 1   RESET

Tiny45-20-SMT

GND

SIGNAL
LED-PWM
TEMP

D2
BAT54

VCC

RESET

10K
R4
VCC

Y1
8Mhz

R8
300K

GND

GND

VCC

R9
3.3K 1%

TEMP

R5
10K NTC

GND

VIN

U$13
8 VIN VOUT 1   VCC
        SENSE 2
5 SHDN GND   6*3
RT9068-3.3V

C9
0.18uF 50V

GND

C6
10uF

GND

Blue Robotics

Lumen-Driver-X2
Microcontroller and LED Driver

Date: 4/1/20 8:01 AM

Sheet: 1/1

LED+ISO

0.68uF 100V

C2

LED-MK-R
U$2

THERMAL
PAD

X1

MKRAWT-00-0000-0B00H4051

LED-ISO