

Source:  
Date:  
Tool:  
Generator:  
Component Count:

D:\PROJEC  
#####  
Eeschema  
E:\kicad\Ne  
86

Ref	Qty
A1	1
C1, C2, C11, C12, C18, C23, C24	7
C3, C4, C5, C6, C8, C13, C14, C16, C17, C20, C25, C26, C27, C28, C30	15
C7, C19, C29	3
C9, C21, C31	3
C10, C22, C32	3
C15	1
D1, D2, D3	3
IC1, IC2, IC6, IC7, IC10, IC11	6
IC3, IC8, IC12	3
IC4, IC9, IC13	3
IC5	1
J1	1
Q1, Q2, Q3, Q4, Q5, Q6	6
R1, R2, R3, R4, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R23, R24, R25, R26	20
R5, R20, R27	3
R6, R7, R21, R22, R28, R29	6
U1	1

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7.0.5

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Value	Cmp name
Arduino_Uno_R4_Minima_Shield	Arduino_Uno_R4_Minima_Shield
100 nF	C_Small
C	C
1 nF	C
6.8 nF	C_Small
226.8 nF	C
10 uH	C_Small
1N4007	1N4007
1EDN7126GXTMA1	1EDN7126GXTMA1
TMP236AQDBZTQ1	TMP236AQDBZTQ1
TLI4971A075T5UE0001XUMA1	TLI4971A075T5UE0001XUMA1
SN74HC4851DGVR	SN74HC4851DGVR
Screw_Terminal_For_Brushless_Motor	Screw_Terminal_01x03
IGT60R070D1	IGT60R070D1
R	R
4.7 k	R
1 k	R
AS5048B	AS5048B

.sch

### **Footprint**

PCM\_arduino-library:Arduino\_Uno\_R4\_Minima\_Shield

Diode\_THT:D\_DO-41\_SOD81\_P10.16mm\_Horizontal

1EDN7126GXTMA1

SOT95P237X112-3N

TLI4971A075T5UE0001XUMA1

SOP40P640X120-16N

Package\_TO\_SOT\_SMD:Infineon\_PG-HSOF-8-3\_ThermalVias

Package\_SO:TSSOP-14\_4.4x5mm\_P0.65mm

**Description**

Shield for Arduino Uno R4 Minima

Unpolarized capacitor, small symbol

Unpolarized capacitor

Unpolarized capacitor

Unpolarized capacitor, small symbol

Unpolarized capacitor

Unpolarized capacitor, small symbol

1000V 1A General Purpose Rectifier Diode, DO-41

Gate Drivers INT. POWERSTAGE/DRIVER

Board Mount Temperature Sensors Automotive grade,  $\pm 0.5^{\circ}\text{C}$  analog output temperature sensor with

Infineon TL14971A075T5UE0001XUMA1

8-Channel Analog Multiplexer/Demultiplexer with Injection-Current Effect Control

Generic screw terminal, single row, 01x03, script generated (kicad-library-utils/schlib/autogen/connector/)

31A Id, 600V Vds, 70mOhm, N-Channel GaN MOSFET, HSOF-8

Resistor

Resistor

Resistor

Magnetic position sensor, 14-bit, PWM output, I2C Interface, TSSOP-14

<b>Vendor</b>	<b>Rate</b>	<b>Cost</b>	<b>DNP</b>
Robu	1399	1399	
Electronics Comp	2.2	15.4	
Electronics Comp	2.2	33	
Electronics Comp	2.2	6.6	
Electronics Comp	2.2	6.6	
Electronics Comp	4.4	13.2	
Electronics Comp	2.2	2.2	
Electronics Comp	1	3	
Mouser	98.77	592.62	
Mouser	67.81	203.43	
Mouser	400.89	1202.67	
Mouser	68.89	68.89	
Robu	100	100	
Mouser	955.33	5731.98	
Electronics Comp	2	40	
Electronics Comp	2	6	
Electronics Comp	2	12	
Mouser	755.3	755.3	
<b>Total</b>		10191.89	