Compor	Description
1	Capacitor, 0.1uF, 50V, 5%, 0805
2	Capacitor, 100pF, 50V, 5%, 0805
3	Capacitor, 1uF, 25V, 10%, 0805
4	Capacitor, 22uF, 16V, 20%, 1206
5	Capacitor, 30pF, 50V, 5%, 0805
6	Capacitor, 47uF, 6.3V, 20%, 0805
7	Diode, Zener, 18V, 5W, 5%
8	LED, Green, 2.2V, 20mA, 0805
9	Fuse, PTC, 500mA, 16V, 1210
10	Microcontroller, 8-bit, 1KB RAM, 16KB Flash
11	Connector header through hole 2x3 0.100" (2.54mm)
12	Generic connector, single row, 01x10, script generated (kicad-library-utils/schlib/autogen/connector/)
13	Inductor, 4.7uH, 4.4A, 25mOhm, 20%
14	MOSFET, N-channel, 30V, 6A
15	
16	Resistor, 100, 0.25W, 1%, 0805
17	
18	
19	Resistor, 1M, 0.125W, 5%, 0805
20	
21	Resistor, 200, 0.125W, 5%, 0805
22	
23	
24	
25	Buck converter, 4.5-17V input, adj 0.76-7V output, 1A, 580kHz
26	CRYSTAL 16.0000MHZ 18PF SMD

Compor	26
Compor	53
Fitted C	53
Number	1
Total co	53

Schematic Version:
Schematic Date:
BoM DaThu 27 Sep 2018 10:53:54 PM EDT
Schema/home/corey/Desktop/Formula/MKIV/Boards/Intro Board/Intro.sch
KiCad VEeschema 5.0.0-fee4fd1~66~ubuntu18.04.1

Part	References	Value	Quantity Per PCB
C_0.1uF	C1 C4 C5 C10 C12	C_0.1uF	5
C_100pF	C2	C_100pF	1
C_1uF	C11	C_1uF	1
C_22uF	C3	C_22uF	1
C_30pF	C6 C8	C_30pF	2
C_47uF	C7 C9	C_47uF	2
D_Zener_18V	D7	D_Zener_18V	1
LED_0805	D1 D2 D3 D4 D5 D6	LED_0805	6
F_500mA_16V	F1	500mA	1
ATMEGA16M1	IC1	ATMEGA16M1	1
CONN_02X03	J4	CONN_02X03	1
Conn_01x10	J1 J2	Conn_01x10	2
L_4.7uH	L1	L_4.7uH	1
SSM3K333R	Q1 Q2 Q5	SSM3K333R	3
R_0_Jumper	R9	R_0_Jumper	1
R_100	R1	R_100	1
R_100k	R14 R16 R22	R_100k	3
R_10k	R3 R4 R8 R15 R24	R_10k	5
R_1M	R6	R_1M	1
R_1k	R2 R11 R13 R19	R_1k	4
R_200	R7 R12 R17 R21 R23	R_200	5
R_55.1k	R5	R_55.1k	1
CAN_Transceiver	U1	CAN_Transceiver	1
MCP6001RT	U3	MCP6001RT	1
TPS561201	U2	TPS561201	1
Crystal_SMD	Y1	Crystal_SMD	1

MPN
478-3352-1-ND
399-1122-1-ND
478-10487-1-ND
1276-2725-1-ND
1276-1130-1-ND
587-4280-1-ND
SMBJ5355B-TPMSCT-ND
475-1410-1-ND
507-1786-1-ND
ATMEGA16M1-AU-ND
609-3234-ND

445-6583-1-ND
SSM3K333RLFCT-ND
A121322CT-ND
RNCP0805FTD100RCT-ND
311-100KCRCT-ND
CRS0805-FX-1002ELFCT-ND
RMCF0805JT1M00CT-ND
RNCP0805FTD1K00CT-ND
RMCF0805JT200RCT-ND
311-51.1KCRCT-ND
MCP2561-E/SN-ND
MCP6001RT-I/OTCT-ND
TPS561201
SER3686CT-ND