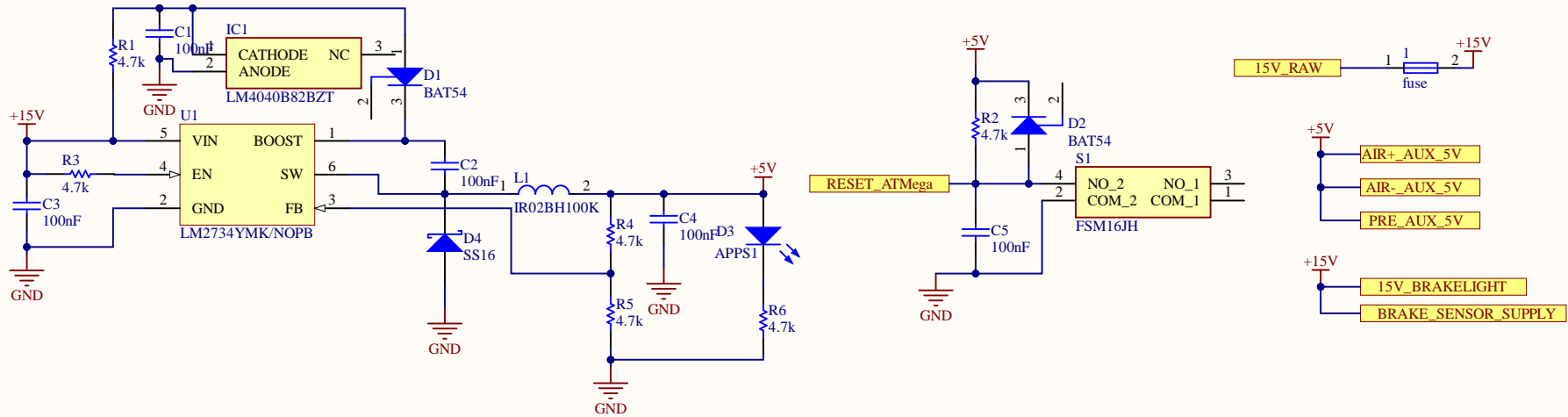
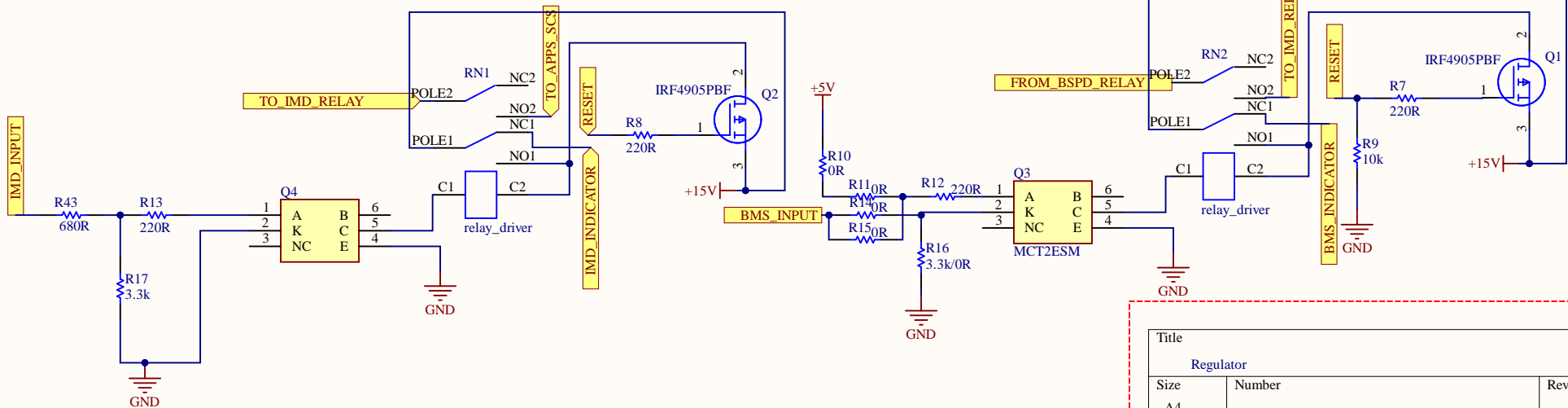


POWERSTAGE

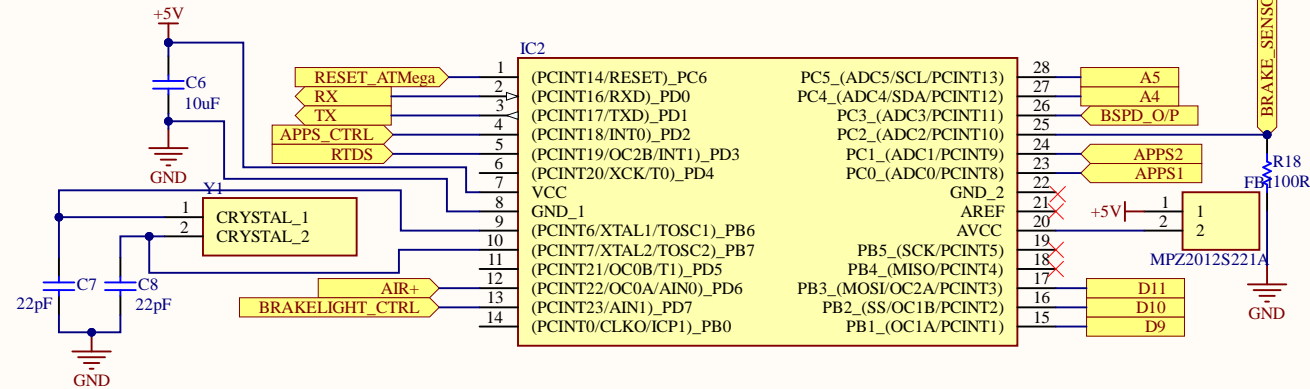


IMD & BMS LATCH

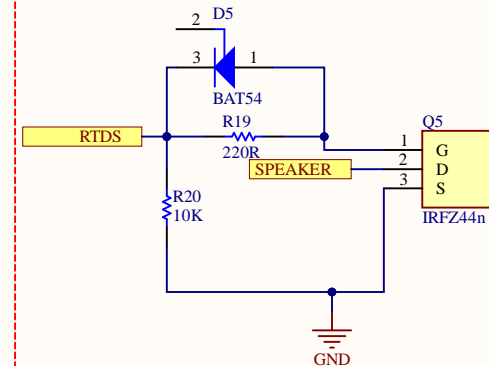


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Regulator		
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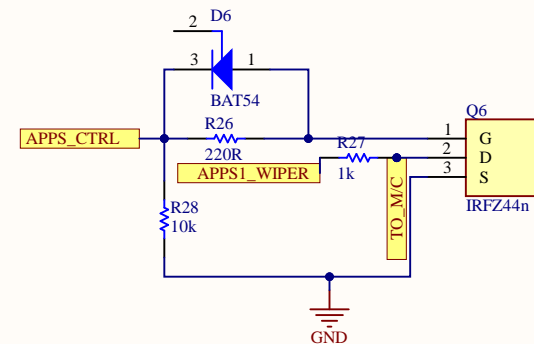
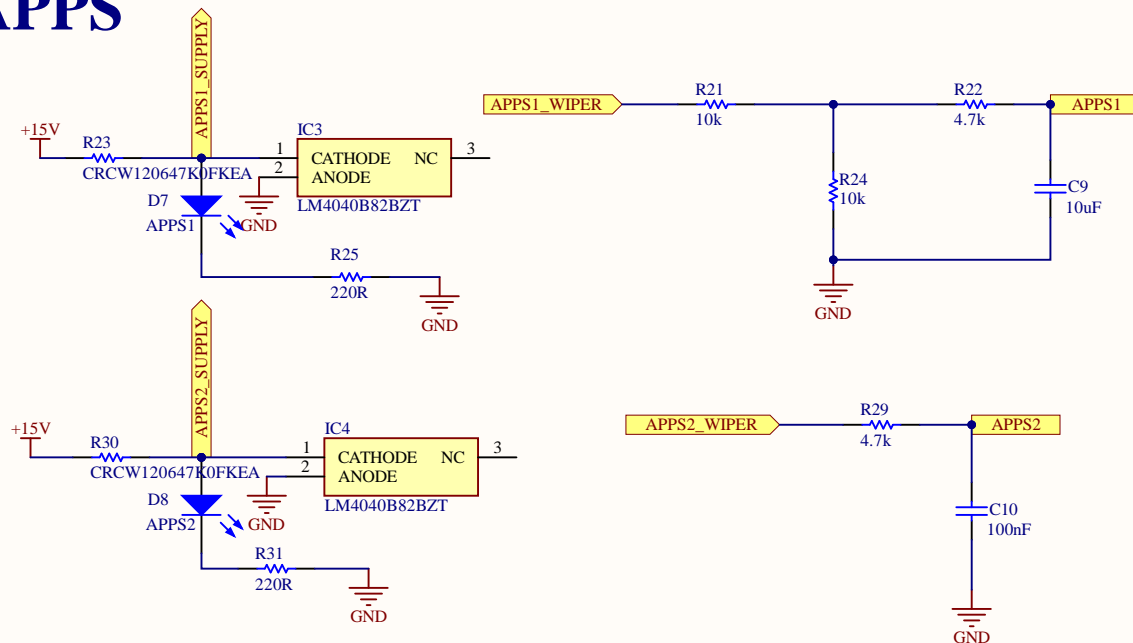
CONTROLLER



RTDS

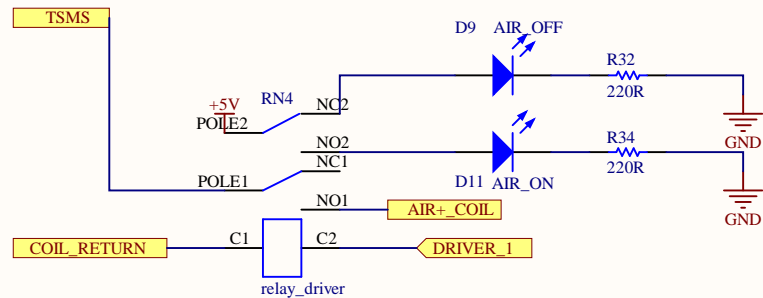


APPS

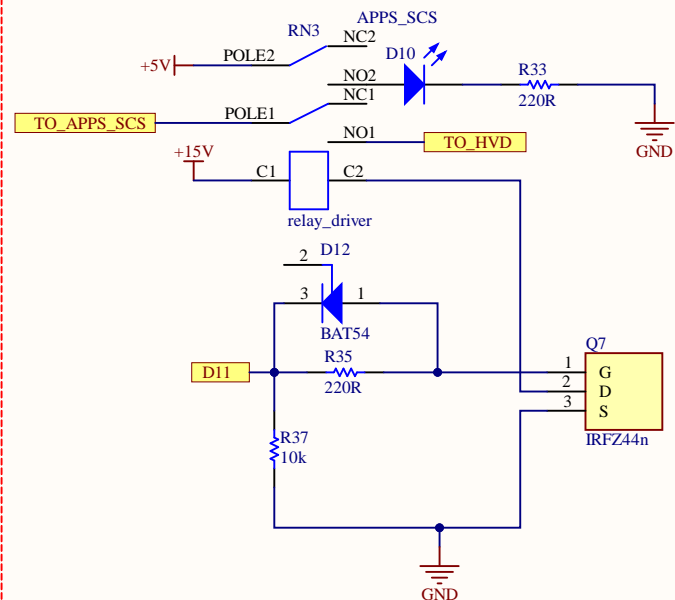


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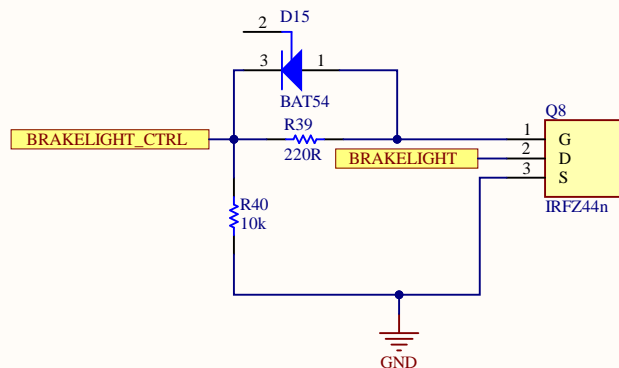
DRIVER_RELAYS



APPS_SCS

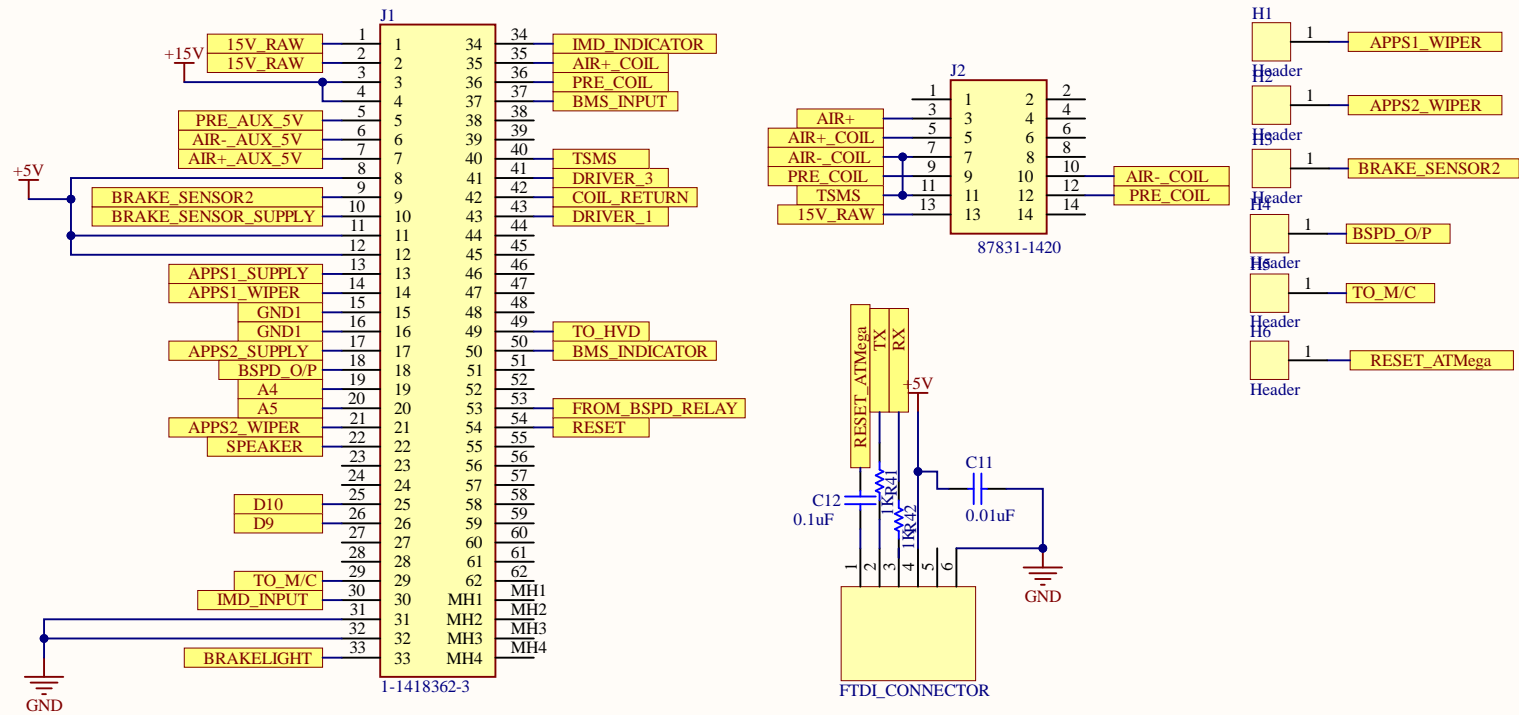


BRAKELIGHT



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CONNECTORS

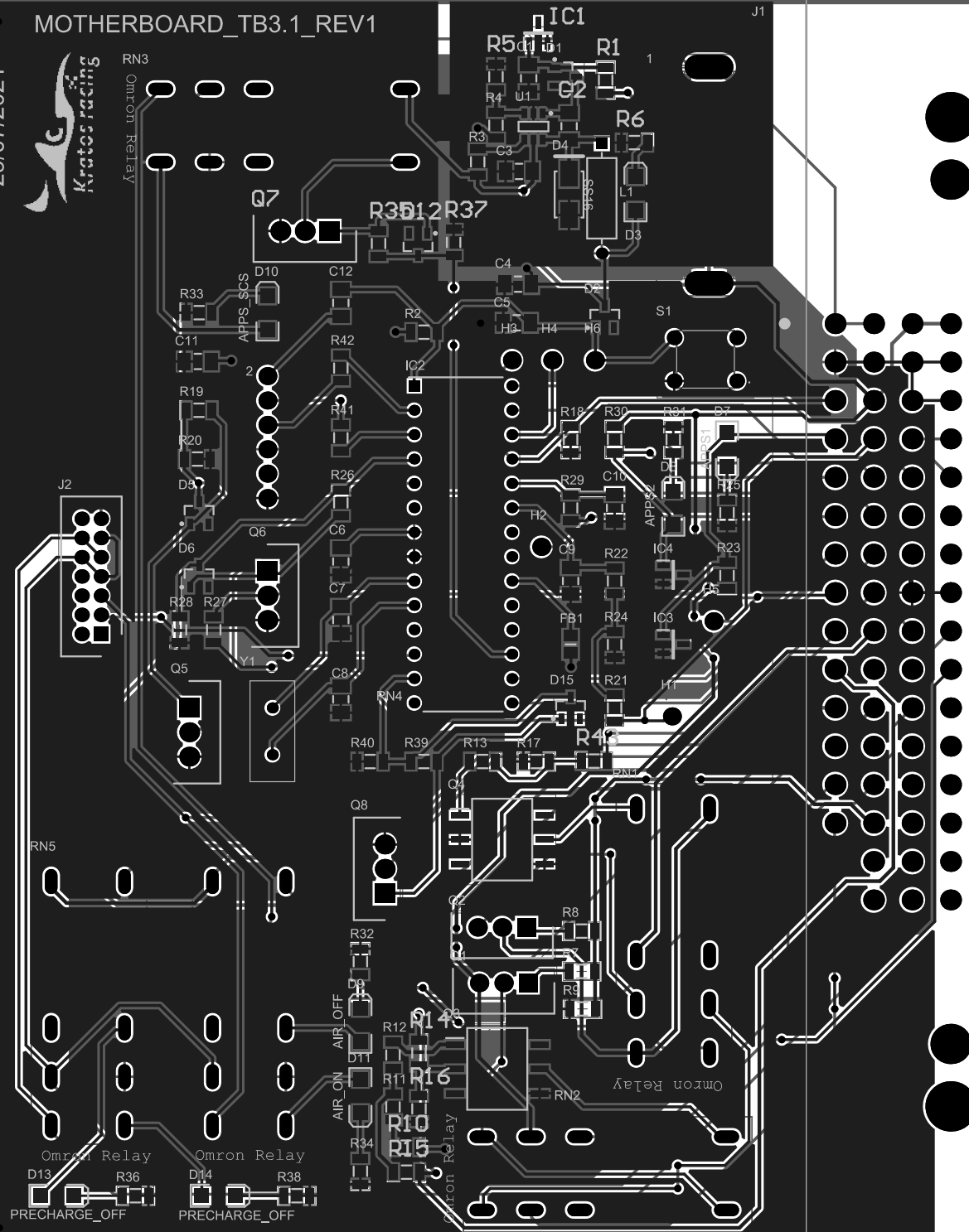


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Size	Number	Revision
A4		
Date:	9-13-2021	Sheet of
File:	D:\users\...\Sheet4.SchDoc	Drawn By:

29/07/2021



MOTHERBOARD_TB3.1_REV1



Comment	Description	Designator	Footprint	LibRef	Quantity
fuse		1	fuse	fuse	1
FTDI_connector		2	FTDI	FTDI_connector	1
100nF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C1, C2, C3, C4, C5, C10	KEMT-1206-2_N	CMP-1037-04202-2	6
10uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C6, C9	KEMT-1206-2_N	CMP-1037-04202-2	2
22pF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C7, C8	KEMT-1206-2_N	CMP-1037-04202-2	2
0.01uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C11	KEMT-1206-2_N	CMP-1037-04202-2	1
0.1uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C12	KEMT-1206-2_N	CMP-1037-04202-2	1
BAT54	Silicon Schottky Diode, SOT23, Reel, Green	D1, D2, D5, D6, D12, D15	INF-SOT23_N	CMP-1182-00010-1	6
APPS1	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D3, D7	3.2X1.6X1.1	LED2	2
SS16	Schottky Rectifier, 700 mV, -65 to 125 degC, 2-Pin SMA, RoHS, Tape and Reel	D4	FAIR-SMA-2_B_V	CMP-2000-07149-1	1
APPS2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D8	3.2X1.6X1.1	LED2	1
AIR_OFF	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D9	3.2X1.6X1.1	LED2	1
APPS_SCS	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D10	3.2X1.6X1.1	LED2	1
AIR_ON	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D11	3.2X1.6X1.1	LED2	1
PRECHARGE_OFF	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D13, D14	3.2X1.6X1.1	LED2	2
MPZ2012S221A	Ferrite Bead	FB1	BEADC2012X105N	MPZ2012S221A	1
Header		H1, H2, H3, H4, H5, H6	Header	Header	6
LM4040B82BZT	Integrated Circuit	IC1, IC3, IC4	SOT95P237X112-3N	LM4040B25IDBZT	3
ATMEGA328-PU	Integrated Circuit	IC2	DIP1016W53P254L346 8H457O28N	ATMEGA328-PU	1
1-1418362-3	Connector	J1	T14183623	1-1418362-3	1
87831-1420	Connector	J2	SHDR14W55P200_2X7 1665X630X640P	87831-1420	1
IR02BH100K	IR-2 10 10% B08	L1	FP-IR02-MFG	CMP-03630-000001-1	1
IRF4905PBF	MOSFET (P-Channel)	Q1, Q2	TO254P469X1042X196 7-3P	IRF4905PBF	2
MCT2ESM	Phototransistor	Q3, Q4	SOT254P916X480-6N	IMCT2ESM	2
IRFZ44n	Transistor	Q5, Q6, Q7, Q8	TO254P483X1016X222 3-3P	IRFZ44n	4
4.7k		R1, R2, R3, R4, R5, R6, R22, R29	R1206	RES	8
220R		R7, R8, R12, R13, R19, R25, R26, R31, R32, R33, R34, R35, R36, R38, R39	R1206	RES, CMP-2003-02213-1	15
10k		R9, R20, R21, R24, R28, R37, R40	R1206	RES	7
OR		R10, R11, R14, R15	R1206	RES	4
3.3k/OR		R16	R1206	RES	1
3.3k		R17	R1206	CMP-2003-02213-1	1
100R		R18	R1206	RES	1
CRCW120647K0FKEA		R23, R30	R1206	RES	2
1k		R27, R41, R42	R1206	RES	3
680R		R43	R1206	RES	1
relay_driver		RN1, RN2, RN3, RN4, RN5	OMRON_12_RELAY	relay_driver	5
FSM16JH	Switch	S1	FSM16JH	FSM16JH	1
LM2734YMK/NOPB	1A Load Step-Down DC-DC Regulator, 6-pin Tiny SOT23, Pb-Free	U1	DDC0006A_N	CMP-0069-01201-3	1
ECS-160-18-4X-CKM	Crystal or Oscillator	Y1	ECS160184XCKM	ECS-160-18-4X-CKM	1