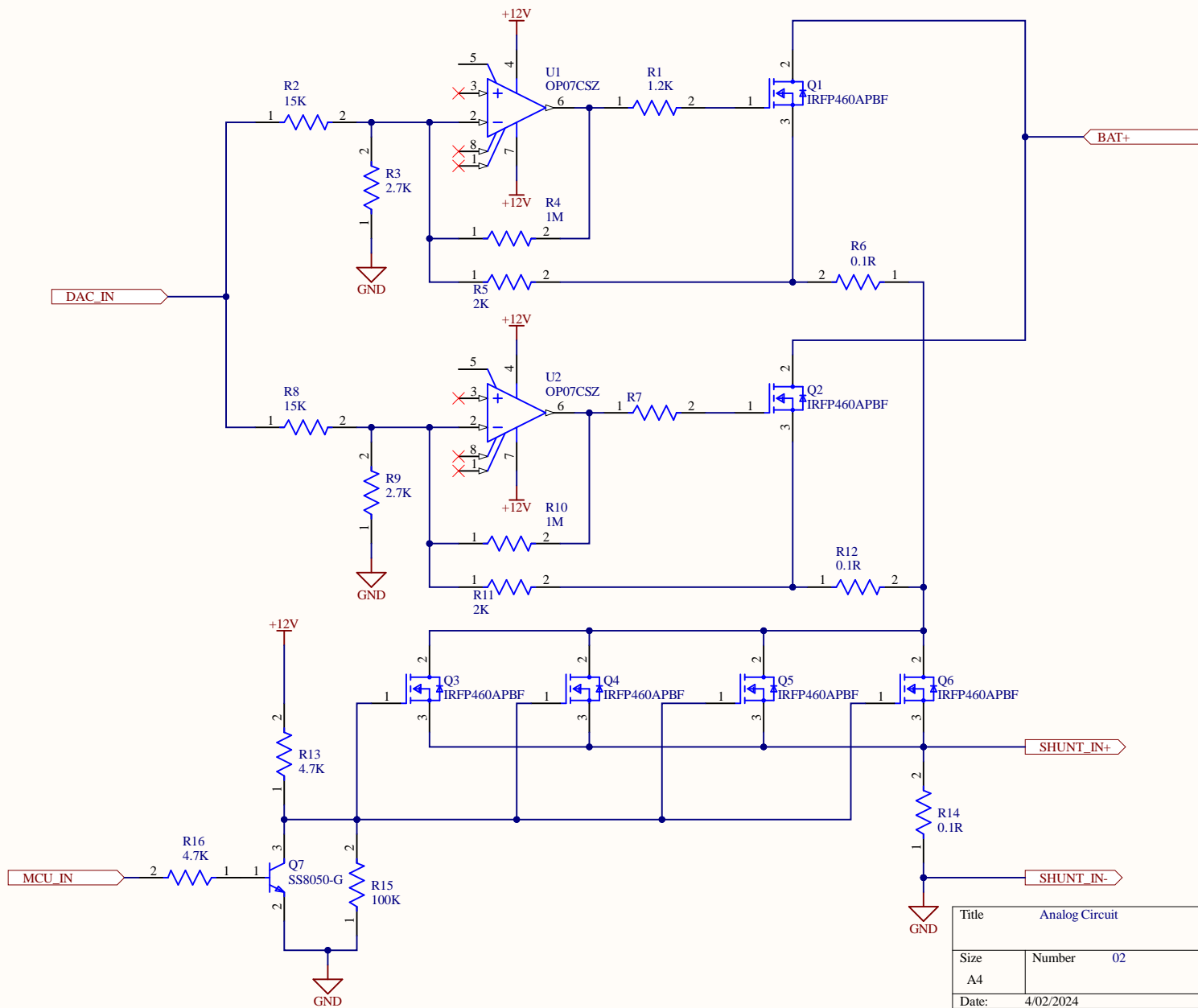
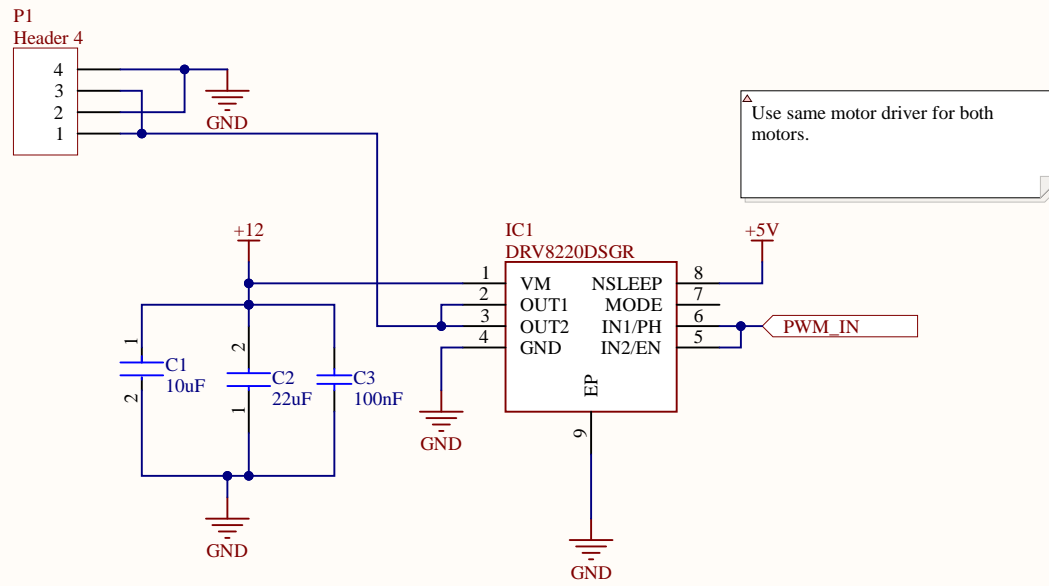


TitleMain Circuit			
SizeA4	Number01	Revision1.0	
Date:4/02/2024	Sheet ofBattery Profiler		
File:D:\Altium Projects\...\Main.SchDoc	Drawn By:Group P		

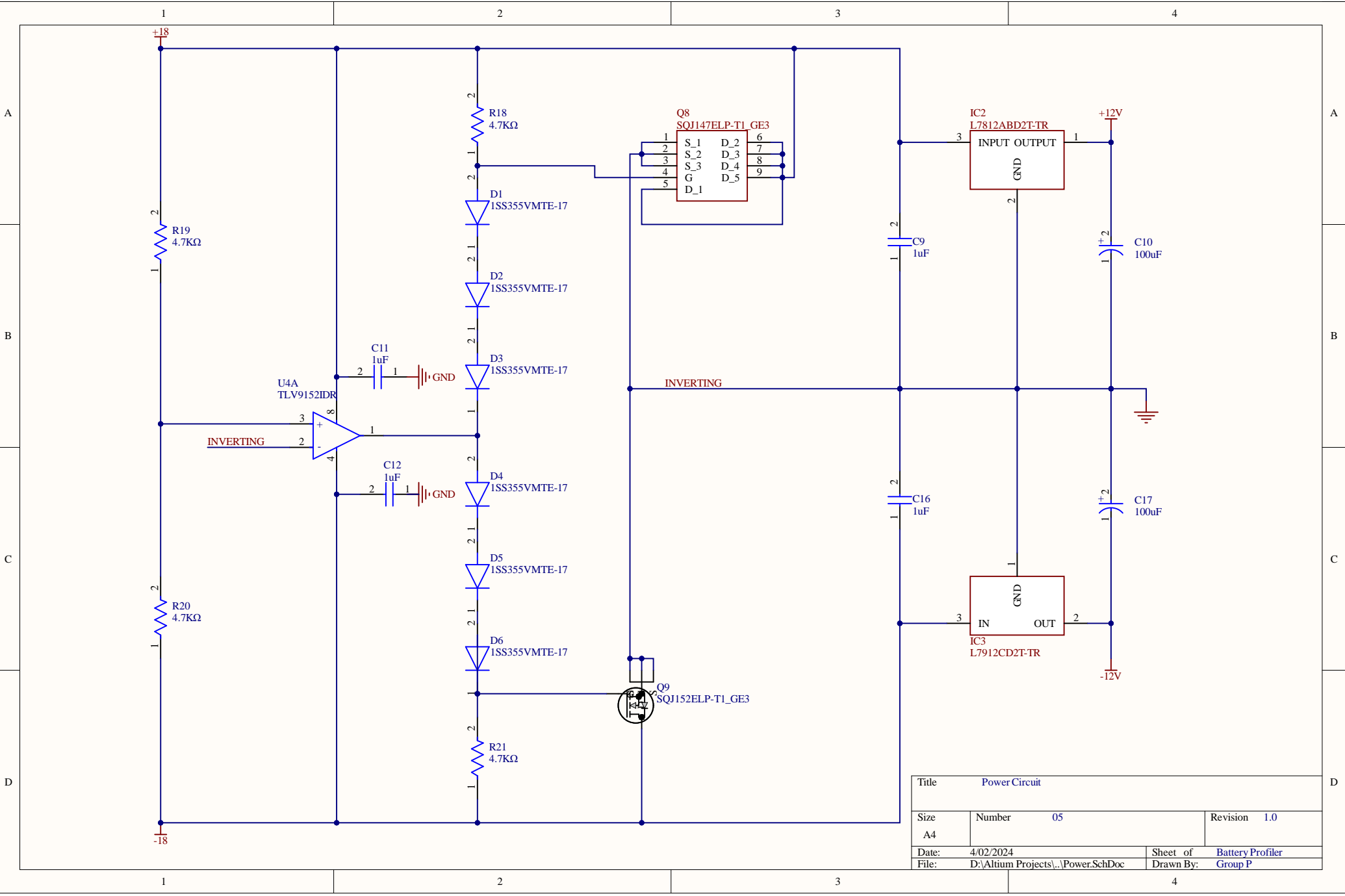


Title Analog Circuit			
Size A4	Number 02	Revision 1.0	
Date: 4/02/2024		Sheet of	Battery Profiler
File: D:\Altium Projects\...\Analog.SchDoc		Drawn By:	Group P

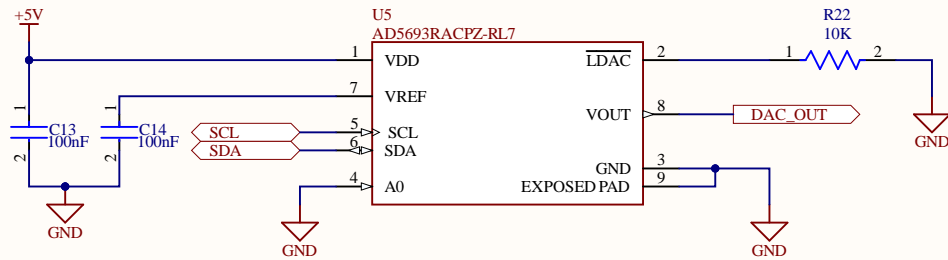


Title Fan Control Circuit			
Size A	Number 03	Revision 1.0	
Date: 4/02/2024	Sheet of battery Profiler		
File: D:\Altium Projects\...\FanControl.SchDoc	Drawn By: Group P		

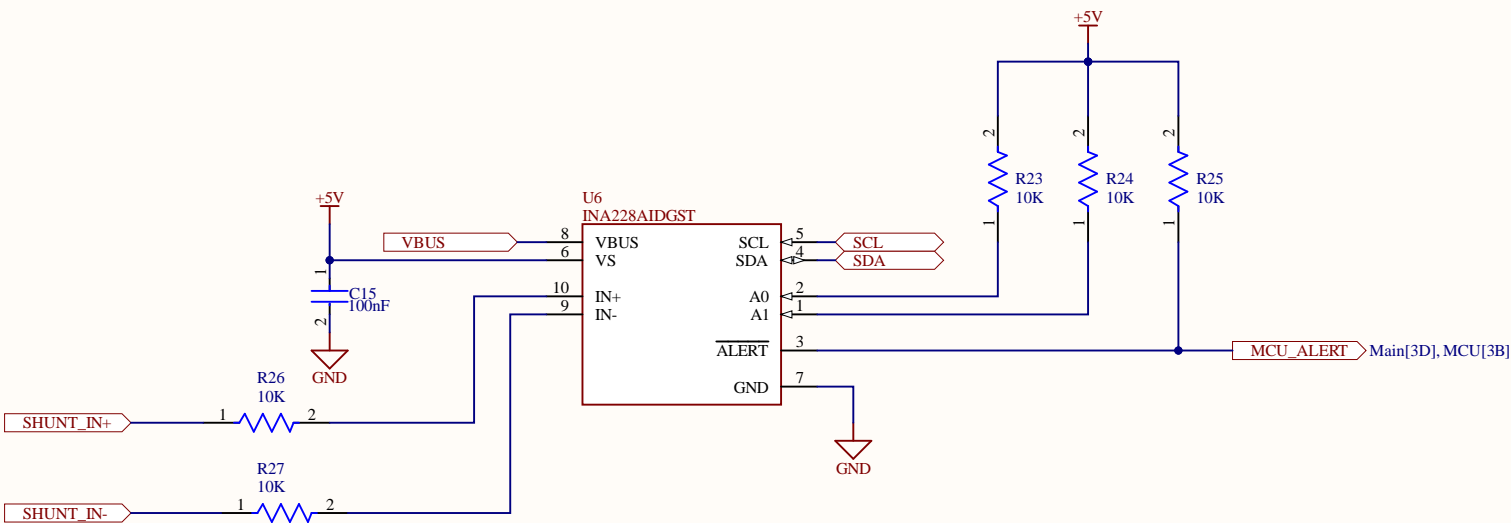




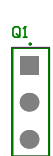
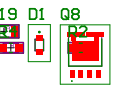
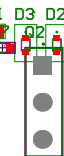
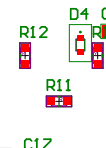
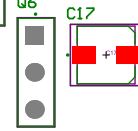
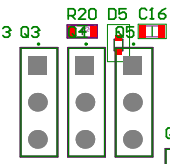
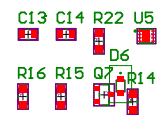
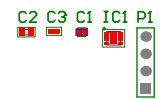
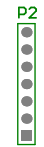
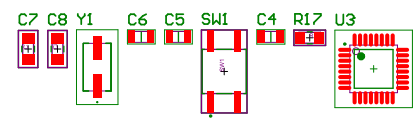
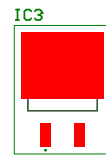
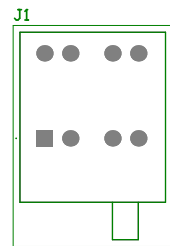
Title			Power Circuit	
Size	Number	05		Revision
A4				1.0
Date:	4/02/2024		Sheet of	Battery Profiler
File:	D:\Altium Projects\...\Power.SchDoc		Drawn By:	Group P



Title DAC Circuit		
Size A4	Number 06	Revision 1.0
Date: 4/02/2024	Sheet of Battery Profiler	
File: D:\Altium Projects\...\DAC.SchDoc	Drawn By: Group P	



Title			Sense Amplifier	
Size	Number	07		Revision
A4				1.0
Date:	4/02/2024	Sheet of	Battery Profiler	
File:	D:\Altium Projects\...\Sense Amplifier.SchDoc	Drawn By:	Group P	





Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	CL05A106MP5NUNC	CAP CER 10UF 10V X5R 0402	C1		Unknown server		1	Samsung	CL05A106MP5NUNC	Volume Production	Mouser	187-CL05A106MP5NUNC	0.18	0.18
	CL10A226MP8NUNE	Capacitor	C2		Not managed		1							
	CL05B104K05NNNC	Chip Capacitor, 100 nF, +/- 10%, 16 V, -55 to 125 degC, 0402 (1005 Metric), RoHS, Tape and Reel	C3		Unknown server		1	Samsung	CL05B104K05NNNC	Volume Production	Mouser	187-CL05B104K05NNNC	0.1	0.1
	CL31A106MAHNNNE	CAP CER 10UF 25V X5R 1206 CL31A106MAHNNNE	C4		Not managed		1	Samsung	CL31A106MAHNNNE	Volume Production	Digikey	1276-1181-1-ND	0.19	0.19
	CL31B104KBCNNNC	CAP CER 0.1UF 50V X7R 1206	C5, C6		Not managed		2				Digi-Key	1276-1017-1-ND		
	CL31C220BCNNNC	Cap Ceramic 22pF 50V COG ±5% SMD 1206 ±125°C Embossed T/R	C7, C8		Unknown server		2	Samsung	CL31C220BCNNNC	Volume Production	Mouser	187-CL31C220BCNNNC	0.14	0.28
	1uF	Capacitor 12063CT05MAT2A	C9, C11, C12, C16		Not managed		4							
	UWT1H101MNL1GS	CAP ALUM 100UF 20% 50V SMD	C10, C17		Unknown server		2							
	C2012X7T2E104K125AE	CAP CER 0.1UF 250V X7T 0805	C13, C14, C15		Unknown server		3	TDK	C2012X7T2E104K125AE	Volume Production	Mouser	810-C2012X7T2E104KST	0.43	1.29
	1SS35VMTE-17	Diode	D1, D2, D3, D4, D5, D6		Not managed		6							
	DRV8220DSGR	Integrated Circuit	IC1		Not managed		1							
	L7812ABD2T-TR	Integrated Circuit	IC2		Not managed		1							
	L7912CD2T-TR	Integrated Circuit	IC3		Not managed		1							
	1770393	Connector	J1		Not managed		1							
	Header 4	Header, 4-Pin	P1		Not managed		1							
	Header 7	Header, 7-Pin	P2		Not managed		1							
	IRFP460APBF	MOSFET N-CH 500V 20A TO-247AC	Q1, Q2, Q3, Q4, Q5, Q6		Unknown server		6	Vishay	IRFP460APBF	Volume Production	Mouser	844-IRFP460APBF	4.36	26.16
	SS8050-G	NPN TRANSISTOR 1.5A 40V SOT-23 R	Q7		Unknown server		1	Comchip	SS8050-G	Volume Production	Mouser	750-SS8050-G	0.29	0.29
	SQJ147ELP-T1_GE3	MOSFET (N-Channel)	Q8		Not managed		1							
	SQJ152ELP-T1_GE3	No Description Available	Q9		Not managed		1							
	ERJ-P06F1002V_10K	RES SMD 10K OHM 1% 1/2W 0805	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R22, R23, R24, R25, R26, R27		Unknown server		22	Panasonic	ERJ-P06F1002V	Volume Production	Mouser	667-ERJ-P06F1002V	0.066	1.45
	RMCF1206FT10K0	10kΩ ±1% 0.25W 1206 Thick Film Chip Resistor AEC-Q200 compliant RMCF1206FT10K0	R17		Unknown server		1	Stackpole Electronics	RMCF1206FT10K0	Volume Production	Mouser	708-RMCF1206FT10K0	0.1	0.1
	AC1206FR-104K7L	AC1206 4.7KΩ 0.25W 1.00%	R18, R19, R20, R21		Unknown server		4							
	1571634-2	SWITCH TACTILE SPST-NO 0.05A 24V	SW1		Unknown server		1	TE Connectivity	1571634-2	Volume Production	Mouser	506-1571634-2	0.5	0.5
	OP07CSZ	Single Channel Low Noise Operational Amplifier, 600 kHz BW, 300 mV/us SR, Industrial, 8-pin SOIC (R-8), Tube	U1, U2		Unknown server		2	Analog Devices	OP07CSZ	Volume Production	Mouser	584-OP07CSZ	2.2	4.4
	ATmega328P-AU	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin TQFP, Industrial Grade (-40°C to 85°C)	U3		Unknown server		1	Microchip	ATMEGA328P-AU	Volume Production	Mouser	556-ATMEGA328P-AU	2.66	2.66
	TLV9152IDR	IC OPAMP GP 2 CIRCUIT 8SOIC	U4		Unknown server		1							
	AD5693RACPZ-RL7	IC DAC 16BIT V-OUT 8LFCSP	U5		Unknown server		1	Analog Devices	AD5693RACPZ-RL7		Mouser	584-AD5693RACPZ-RL7	8.15	8.15
	INA228AIDGST	85-V, 20-BIT, UL TRA-PRECISE, 12C	U6		Unknown server		1	Texas Instruments	INA228AIDGST	Volume Production	Mouser	595-INA228AIDGST	6.21	6.21
	ECS-160-20-3X-TR	Crystal or Oscillator	Y1		Not managed		1	ECS International	ECS-160-20-3X-TR	Volume Production	Digikey	XC1776CT-ND	0.22	0.22