

A

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B

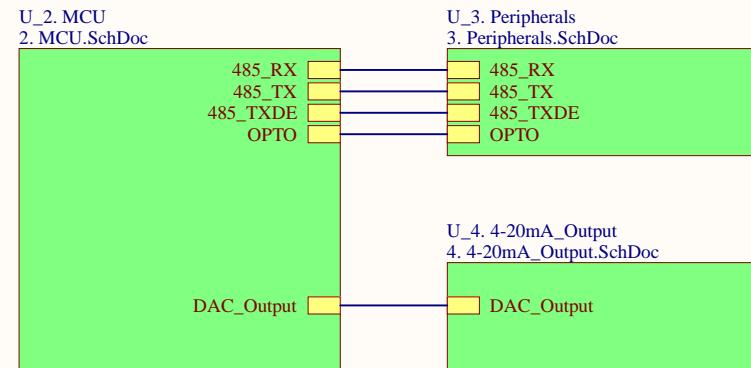
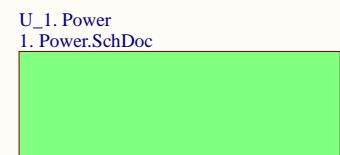
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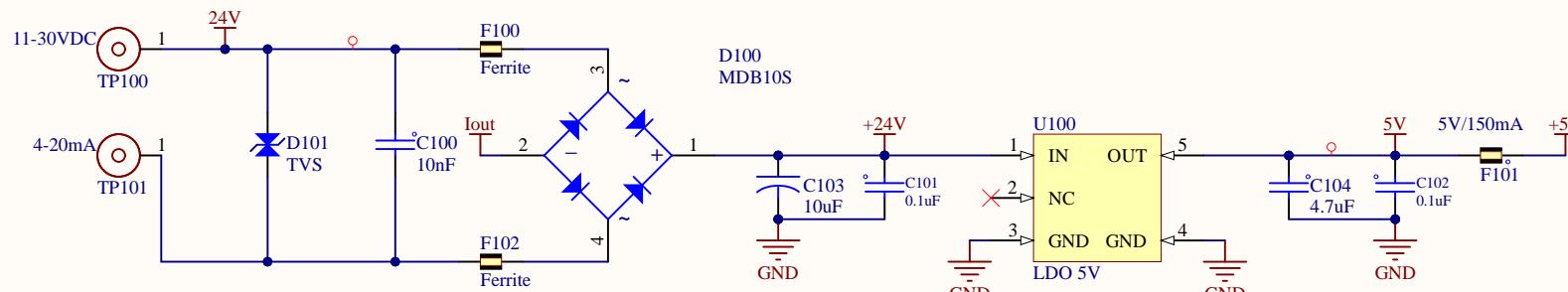
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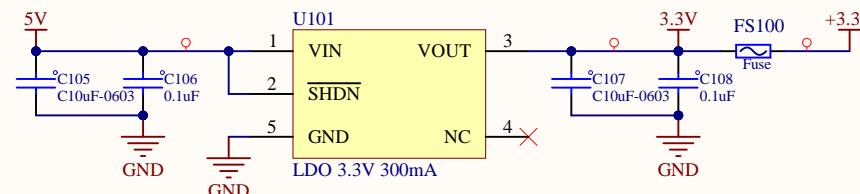


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Date: 8/06/2025	Sheet of	
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Date: 8/06/2025

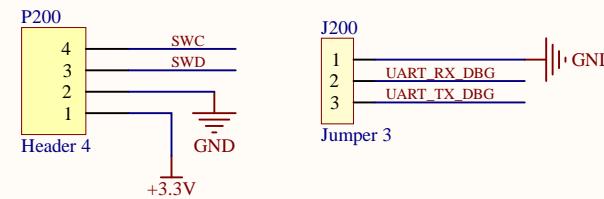
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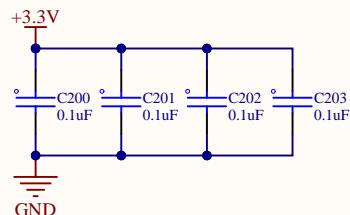
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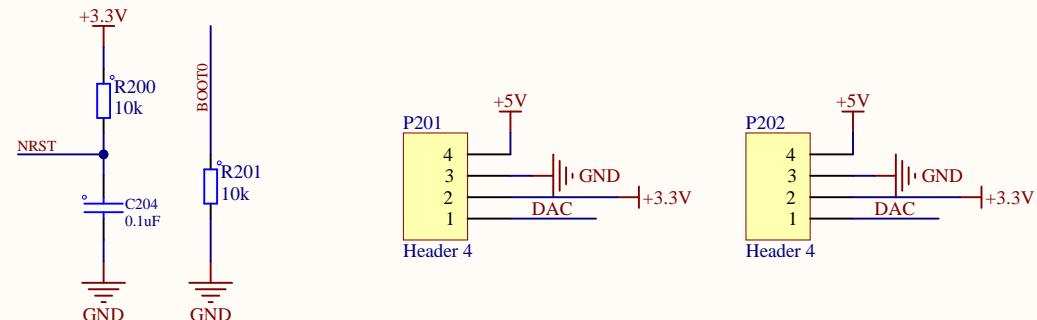
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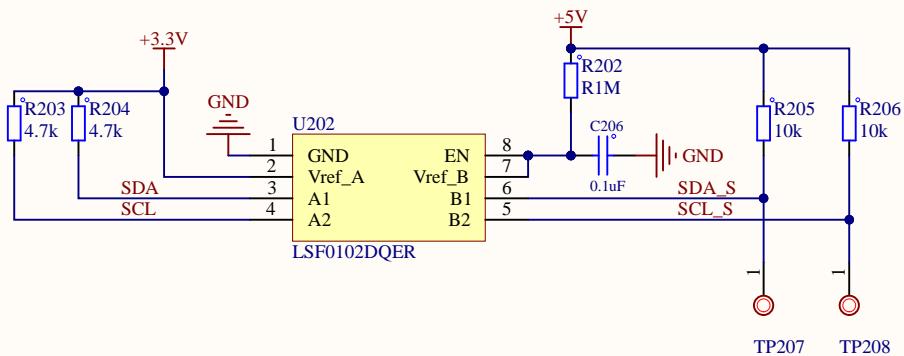
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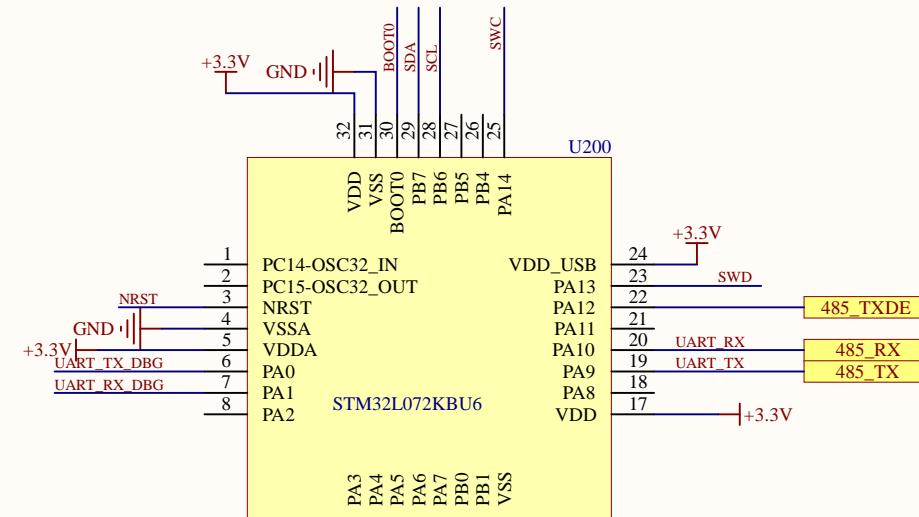
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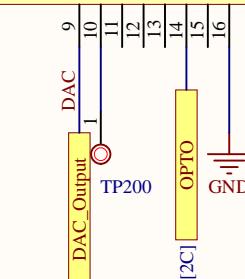
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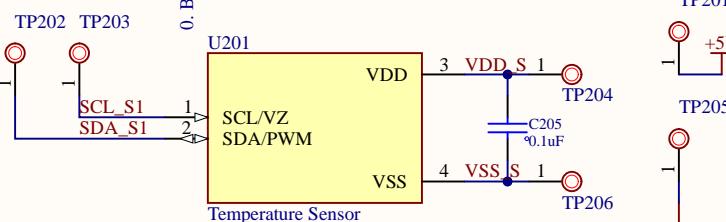
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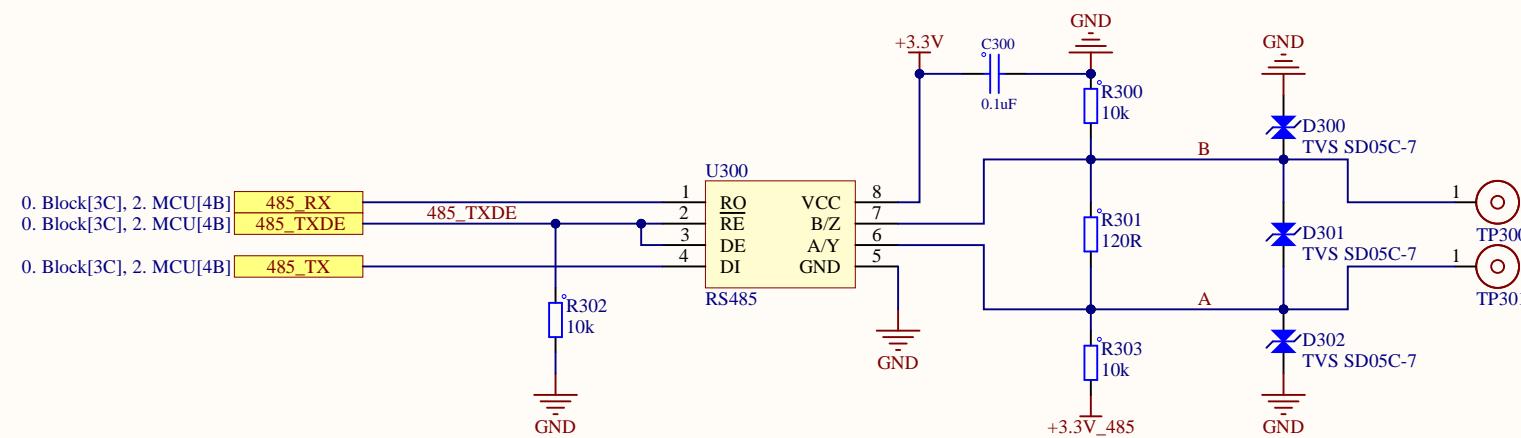
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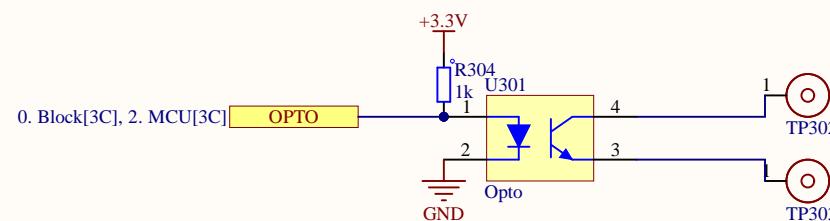
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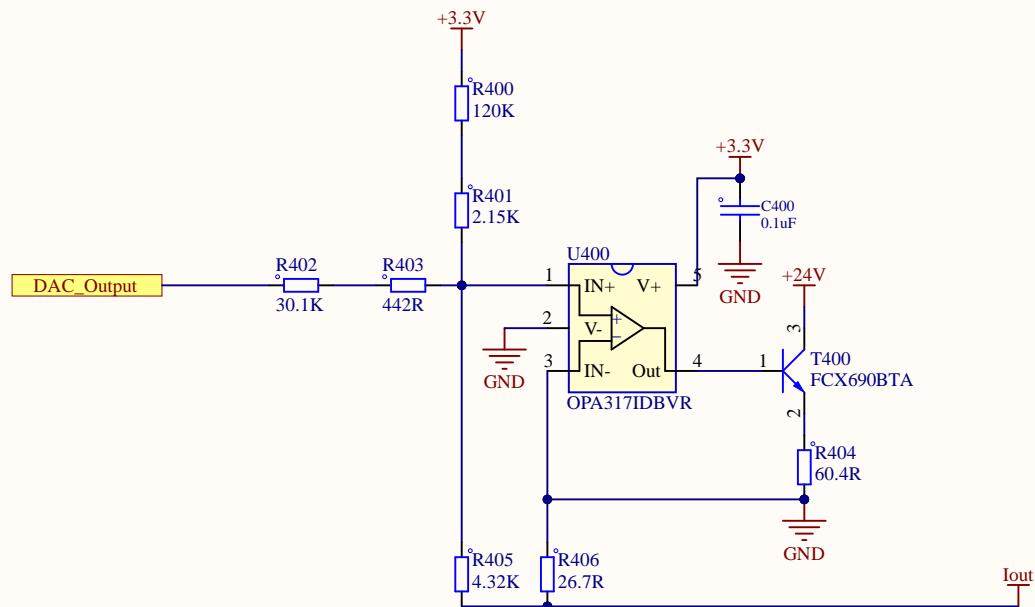
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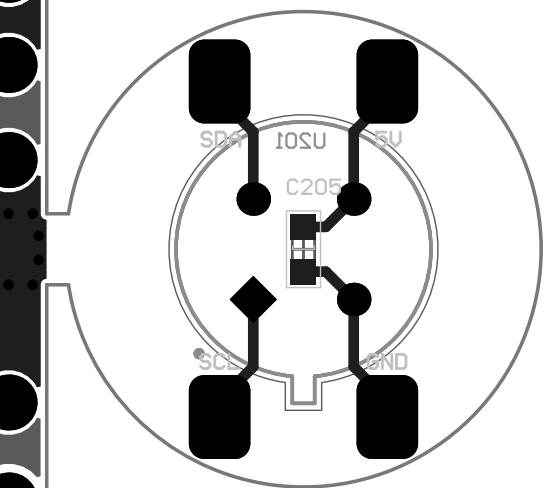
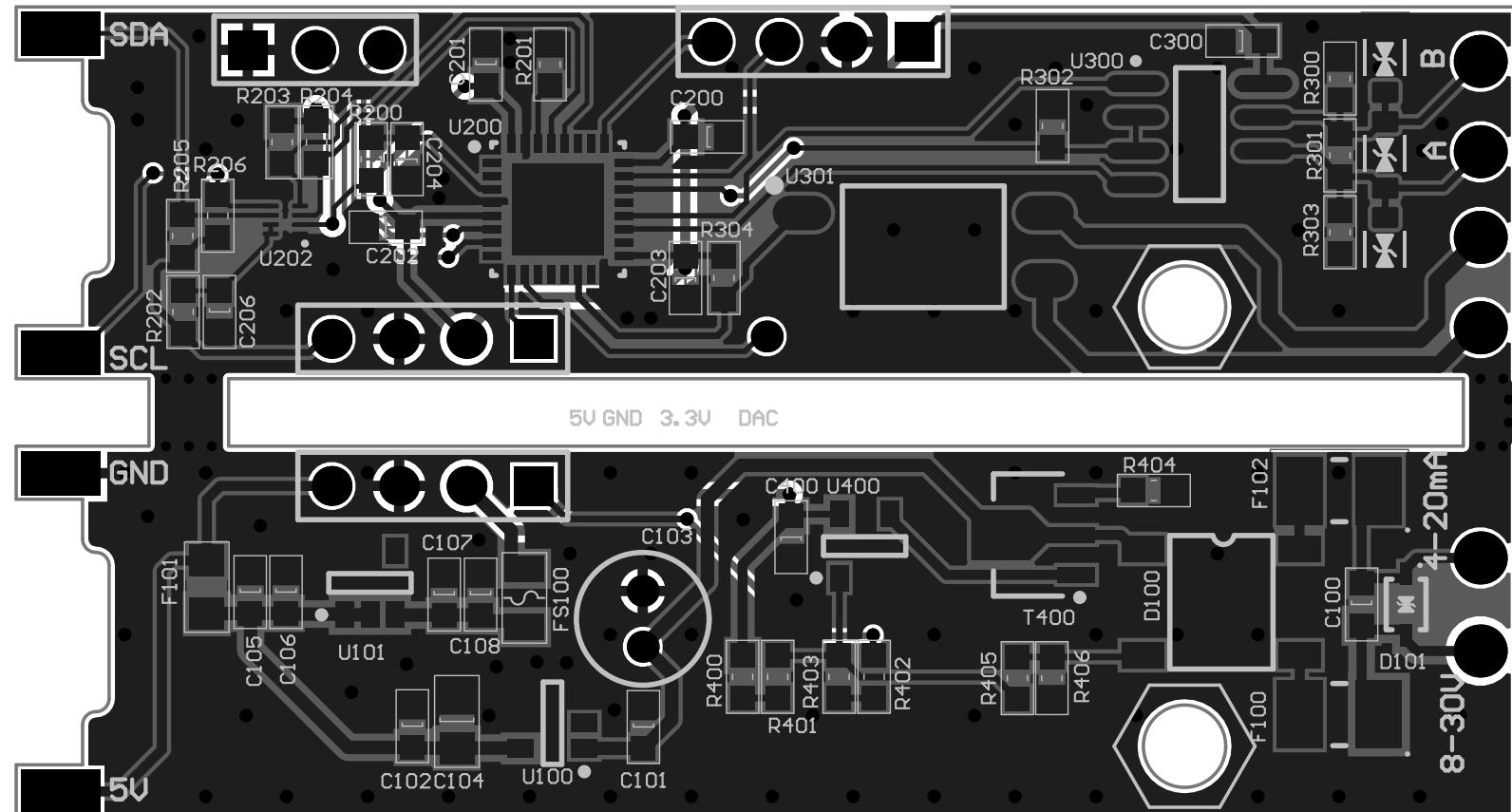
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PCB thickness 1mm



Comment	Description	Designator	Footprint	LibRef	Quantity
T0nF	SMD 0603 10 nF 40V ±10% Tolerance X7R-SMT Multilayer Ceramic Capacitor	C100	C0603	C10nF_0603_100V	1
0.1uf	Multi-Layer Ceramic Capacitor (MLCC) Cap Ceramic 0.1uf 50V X7R 10% PUL C0805	C101, C102, C103, C108, C200, C201, C202, C203, C204, C205, C206, C300, C400	C0603	C0.1uf-0603	13
T0uF	0.1uF SMD Aluminum Capacitors, Radial, Can 2000 hrs at 85°C	C103	C5x11	C10u-35V_hold	1
4.7uF	0.47uF SMD Multi-layer Ceramic 35V, 10%, ±10%, Tol. X7R 10% TC, 0.7uF, 10% Capacitor MLCC	C104	C0805	C4.7uF_0805_35V	1
C10uF-0603	10uF 320V 10V Ceramic Capacitor X5R 0603 (1608 0805)	C105, C107	C0603	C10uF-0603	2
Diode Rectifier	Bridge Single 1A 1A 4-Pin Micro DIP	MD8105	MD8105	Bridge_MDB105	1
TVS	SAW TVS 75V 40W SMD Unidirectional 340 SOD-323ESD and Surge Protection (TVS/ESD) ROHS	D101	TVS 75V C0500J0323- T365C	TVS 75V	1
TVS SD005C-7	TVS BI-DIRECTIONAL TVS DIODE, 200μF, SD005C-7	D300, D301, D302	SD0323 BI-DIRECTIONAL	TVS SD005C-7 Bi-directional	3
Ferrite	Ferrite Bead Power Chip 6000nm 30% 100MHz 3A 42mOhm SMD 2102 Automotive T/R	F100, F102	L1210	FERRITE BEAD 600 OHM 3A	2
Ferrite bead 0805	FERRITE BEAD 15 OHM 0805 1LN	F101	L0805	Ferrite bead 0805	1
Fuse	0.25A 250mA Fast 500 0.2s 12V 0.04 OZM 2-Pin 0805 1/R	F100	Fuse 0805	Fuse 750mA 12V	1
Jumper 3	Jumper 3	J000	HDR1X3	[P3]	1
Header 4	Header 4, 4-Pin 0202, R201, P202, R200, R201, R205, R206, R300, R302, R303	R201	Header 4	Header 4	3
10k	0402 10k Resistor, 1 Mohm ±5%, 100 mW, 0603 (1608 Metric), Thick Film, Green Polyester	R202	R0603	R10k_0603	1
4.7k	0402 4.7k Resistor, 1 Mohm 1% 100mW ±100ppm/°C Molded 2x25mm² T/R	R203, R204	R0603	R4.7k_0603	2
120R	0402 Thin Film 120R 120 Ohm 1% 0.1W/100mW ±100ppm/°C Pad SMD	R301	R0603	R120R_0603_1%	1
Rk	RGS SMD 0.1 OHM 5% 1/10W 0603	R304	R0603	R10_Rk_0603	1
120K	RGS Thin Film 0.1M 0.1MΩ ±0.1% ±25ppm/°C Molded SMD Punched Carrier T/R	R400	R0603	R120k_0603_0.1%	1
2.15K	RGS Thin Film 0603 2.15K Ohm 0.1% 0.1W/100mW ±25ppm/°C Pad SMD	R401	R0603	R2.15k_0603_0.1%	1
30.1K	RGS Thin Film 0603 30.1K Ohm 0.1% 0.1W/100mW ±25ppm/°C Pad SMD	R402	R0603	R30.1k_0603_0.1%	1
442R	RGS Thin Film 0603 442 Ohm 0.1% 0.1W/100mW ±25ppm/°C Pad SMD Automotive T/R	R403	R0603	R442R_0603_0.1%	1
60.4R	R1 FIXED RESISTOR 0605 (2010Metric) 60.4 Ohm 0.1% ±25ppm/°C 60.4Ohm 0.125W 1/RW	R404	R0603	R60.4R_0603_0.1%	1
4.32K	Resistor 0603 0.32K Ohm 0.1% 1/10W ±25ppm/°C Molded SMD SMD Punched Carrier T/R	R405	R0603	R4.32k_0603_0.1%	1
26.7R	RGS Thin Film 0603 Film 26.70mH 0.1% 200mH 10ppm/°C 2 Pin 0603 (1608 T/R)	R406	R0603	R26.7R_0603_0.1%	1
FCX6908TA	Transistor, NPN, 45 V, 2A, 2 W, SOT-83, 3 Plms, Surface Mount	T400	SOT89-150P410X160- 3N	NPN FCX6908TA	1
TP40/90	Surface Mount TP40, TP101, TP90, TP301, TP302, TP303	TP40/90	TP40/90	TP40/90	6
TP45/65	Surface Mount TP200, TP201, TP202, TP203, TP204, TP205, TP206, TP207, TP208	TP45/65	TP45/65	TP45/65	9
ILO 5V	Automotive-150mA, off-battery (40V), high-PF88, low-IO, low-dropout voltage regulator	U100	SOT23-5_L	TP5784950QDBVRQ1 ILO 5V	1
ILO 3.3V 300mA	IC-Linear Regulator Max Input: 10V; Output: 3.3V, 300mA Max Output Current: 0.3A, 0.25A, 0.2A, SOT23-5	U101	SOT23-5_L	MCP1802T-3302/OT ILO 3.3V	1
STM32L072KB6	Ultra-low power ARM Cortex-M0+ with 128 Kbytes Flash, 32 MHz CPU, <td>U200</td> <td>POFNS05900X50055 J-H-33N</td> <td>STM32L072KB6</td> <td>1</td>	U200	POFNS05900X50055 J-H-33N	STM32L072KB6	1
Temperature Sensor	Temperature Sensor Digital Infrared (90 40°C - 125°C 16 bit 10 29)	U201	MUX90414KF-AAA- 000U	MUX90414KF-AAA- 000U	1
LSF0102DQER	Dual Bidirectional multi-voltage-level transistor 8x250m 40 to 125	U202	LSF0102DQER	LSF0102DQER	1
RS485	1/1 Transceiver Half RS485 85485 1.5W	U300	SOIC8_N	SN65HVD720R	1
Opto	Optocoupler DC-IN 1 CH Transistor DC-OUT 4-Pin POF Tube	U301	PC817x15MD	OPTO_TUP785	1
OPA317IDBVR	Op-Amp, Rail-to-Rail Op-Amp Operational Amplifier 5-SOT-23 40 to 125	U400	SOT23-5_L	OPAMP_OPA317IDBVR	1