

Title: *		Waterloo
Size: A4	Author: *	200 University Ave W Engineering 5, 1104 Waterloo, ON N2L 3G1
Date: 2023-01-14	Revision: *	Sheet 1 of 5
File: Monitoring IC.SchDoc		

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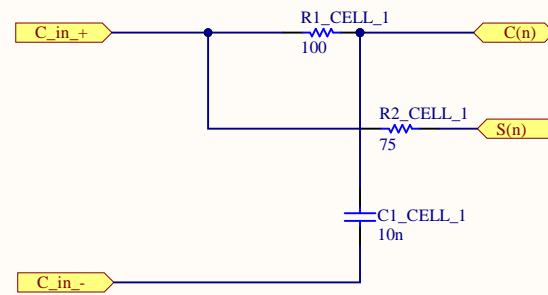
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Title: *

Size: **A4**

Author: *

Date: 2023-01-14 Revision: *

Sheet 2 of 5

Waterloop
 200 University Ave W
 Engineering 5, 1104
 Waterloo, ON
 N2L 3G1

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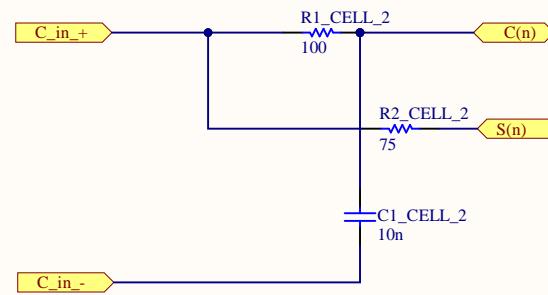
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Title: *

Size: **A4** Author: *

Date: 2023-01-14 Revision: *

File: Cell Balancing.SchDoc Sheet 2 of 5

Waterloop
200 University Ave W
Engineering 5, 1104
Waterloo, ON
N2L 3G1



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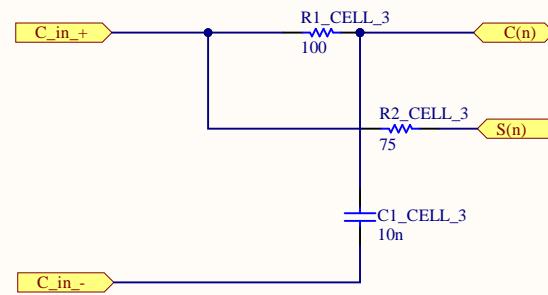
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Waterloop
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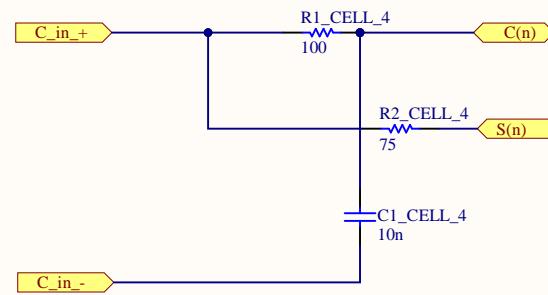
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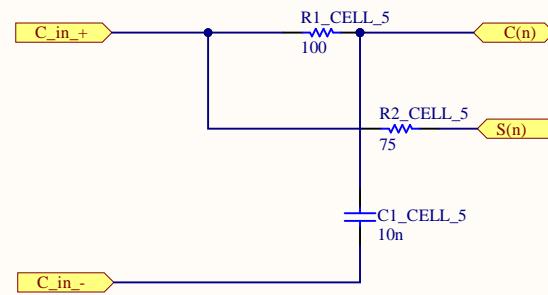
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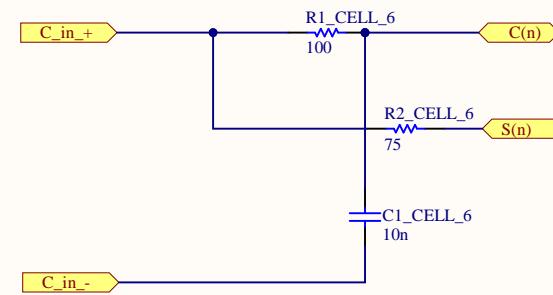
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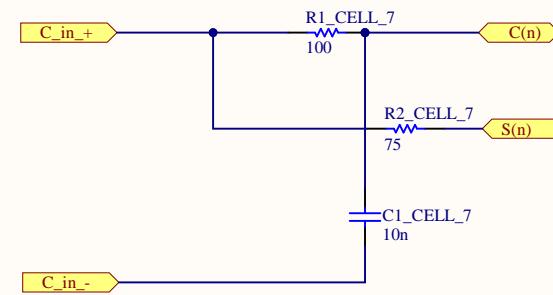
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File: Cell Balancing.SchDoc Sheet 2 of 5

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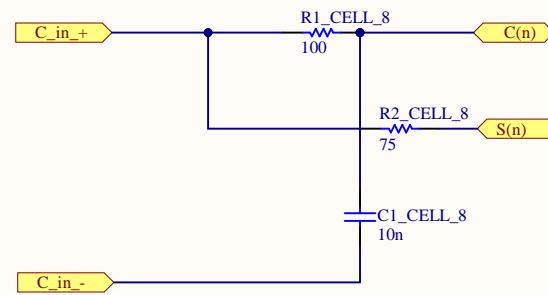
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Waterloop
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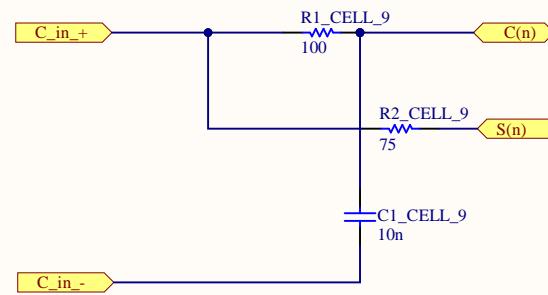
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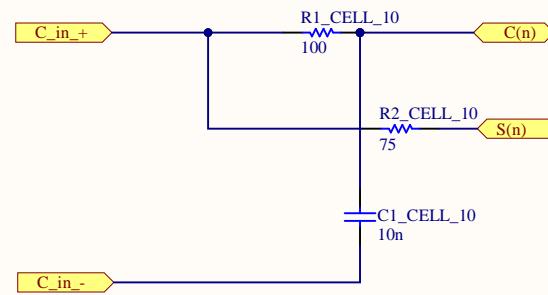
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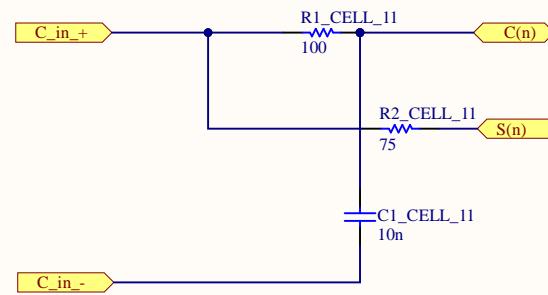
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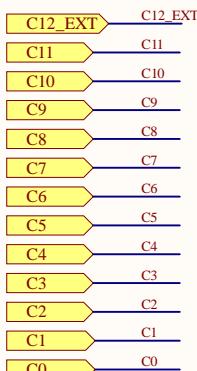
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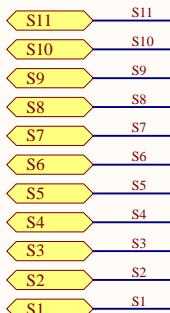


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Size: A4	Author: *	200 University Ave W Engineering 5, 1104 Waterloo, ON N2L 3G1	WATERLOOP
Date: 2023-01-14	Revision: *	Sheet 2 of 5	
File: Cell Balancing.SchDoc			

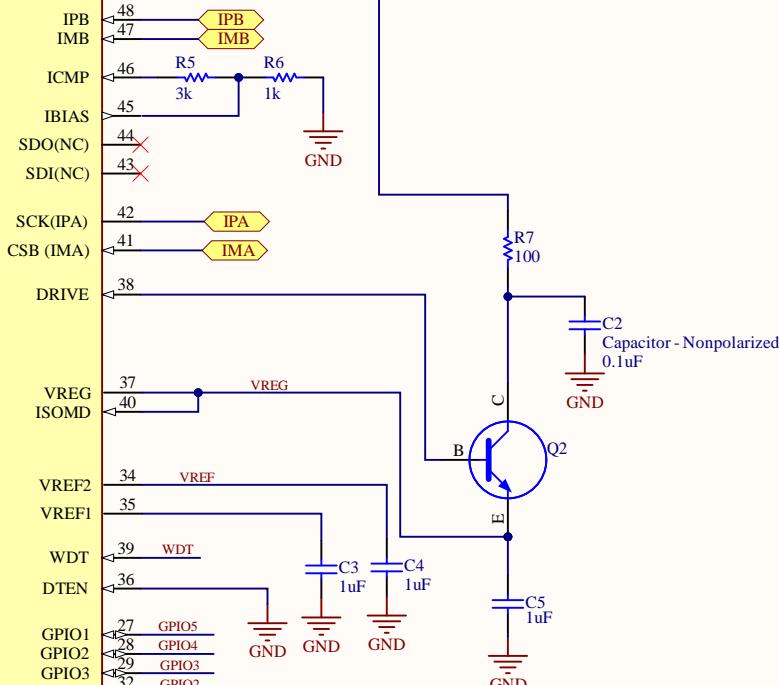
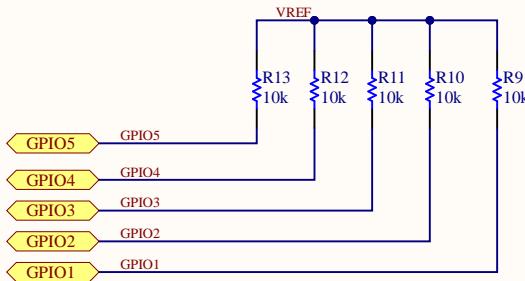
Cell Inputs



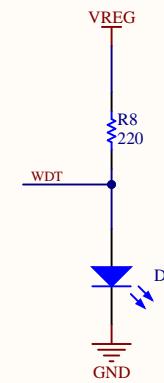
S Pin



GPIO INPUTS



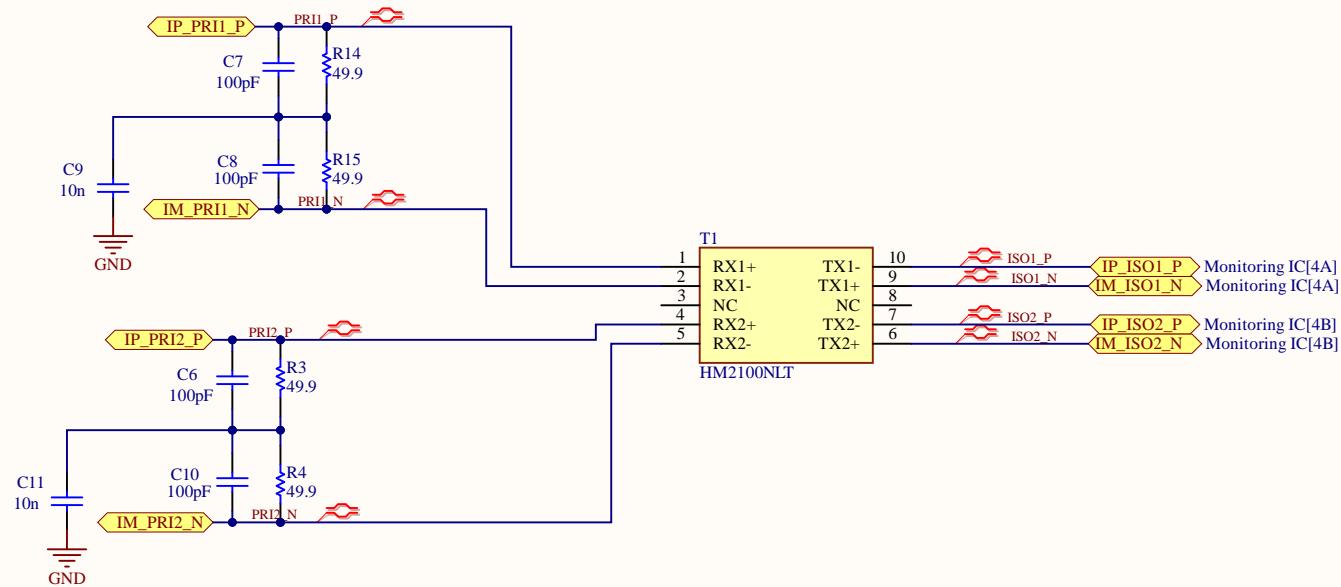
WDT LED



Title: *		Waterloo
Size: A4	Author: *	200 University Ave W Engineering 5, 1104 Waterloo, ON N2L 3G1
Date: 2023-01-14	Revision: *	Sheet 3 of 5
File: LTC6811_Sheet.SchDoc		WATERLOOP

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Title: *		Waterloop
200 University Ave W Engineering 5, 1104 Waterloo, ON N2L 3G1		
Size: A4	Author: *	
Date: 2023-01-14	Revision: *	Sheet 4 of 5
File: Transformer_Stage.SchDoc		

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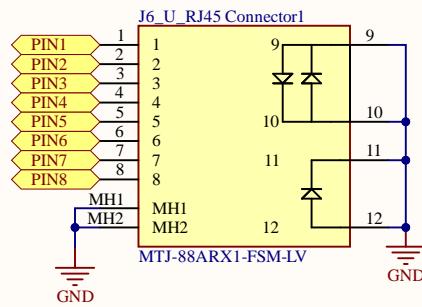
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Title: *		Waterloop	
Size: A4		Engineering 5, 1104 Waterloo, ON N2L 3G1	
Date: 2023-01-14	Revision: *	Sheet 5 of 5	WATERLOOP
File: RJ45 Connector.SchDoc			

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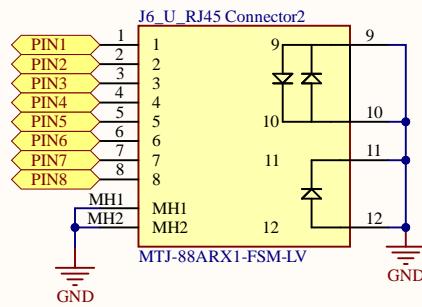
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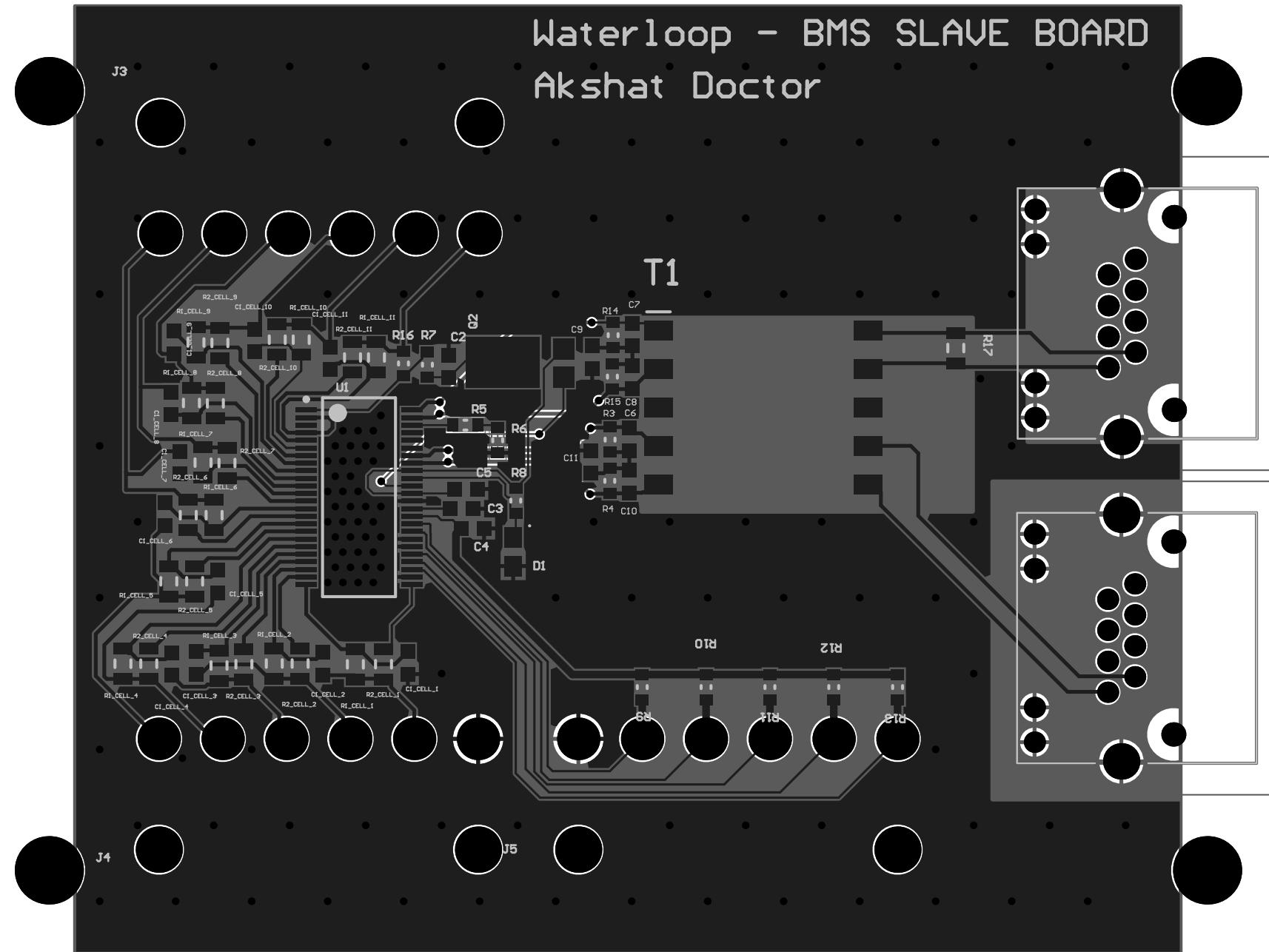
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Title: *		Waterloop	
Size: A4		Engineering 5, 1104 Waterloo, ON N2L 3G1	
Date: 2023-01-14	Revision: *	Sheet 5 of 5	WATERLOOP
File: RJ45 Connector.SchDoc			

Waterloop - BMS SLAVE BOARD
Akshat Doctor



Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor - Nonpolarized	Nonpolarized Capacitor	C1_CELL_1, C1_CELL_2, C1_CELL_3, C1_CELL_4, C1_CELL_5, C1_CELL_6, C1_CELL_7, C1_CELL_8, C1_CELL_9, C1_CELL_10, C1_CELL_11, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11	0603 - Capacitor	Capacitor - Nonpolarized	21
LED	Light Emitting Diode	D1	0805 - DIODE	LED	1
6 pin MOLEX	1x6 MOLEX MiniFit Jr. Connector	J3, J4, J5	1726480106	MOLEX1726480106	3
MTJ-88ARX1-FSM-LV	RJ45 Connector	J6_U_RJ45 Connector1, J6_U_RJ45 Connector2	MTJ-88ARX1-FSM-LV	MTJ-88ARX1-FSM-LV	2
TRANS NPN 160V 0.6A POWERD15	Bipolar (BJT) Transistor NPN 160 V 600 mA 130MHz 2.25 W Surface Mount PowerDl™ 5	Q2	DXT5551P5	DXT5551P5-13	1
Resistor	Resistor	R1_CELL_1, R1_CELL_2, R1_CELL_3, R1_CELL_4, R1_CELL_5, R1_CELL_6, R1_CELL_7, R1_CELL_8, R1_CELL_9, R1_CELL_10, R1_CELL_11, R2_CELL_1, R2_CELL_2, R2_CELL_3, R2_CELL_4, R2_CELL_5, R2_CELL_6, R2_CELL_7, R2_CELL_8, R2_CELL_9, R2_CELL_10, R2_CELL_11, R17	0805 - Resistor	Resistor	23
Resistor	Resistor	R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16	0603 - Resistor	Resistor	14
HM2100NLT	Pulse Transformer 1:1 Surface Mount 150µH, 450µH	T1	HM2100NLT	HM2100NLT	1
LTC6811HG-1#3ZZTRPBF	Multicell Battery Balancer 5.7V Automotive 48-Pin SSOP T/R	U1	LTC6811-1	LTC6811HG-1#3ZZTRPBF	1