

TIDA-010030 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1	Value	TIDA-010030	Any	Printed Circuit Board	- Luckagorkorororo
C1, C2, C3, C4,	20	1uF	GRM188R71C105KE15D	MuRata	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603
C5, C6, C7, C8,		1			, ,	
C9, C10, C11,						
C12, C14, C15,						
C16, C17, C21,						
C22, C23, C37						
C13	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 µF, 35 V,+/- 10%, X7R, 0603	0603
C18	1	0.1uF	CGA4J2X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C19	1	470pF	GCM1885C1H471JA16D	MuRata	CAP, CERM, 470 pF, 50 V,+/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C20	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V,+/- 10%, X7R, 1210	1210
C24, C25, C26	3	10uF	C3225X5R1H106K250AB	TDK	CAP, CERM, 10 μF, 50 V,+/- 10%, X5R, 1210	1210
C27, C28, C29	3	4700pF	GCM188R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C30, C34, C35,	5	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X5R, 0603	0603
C44, C47						
C31, C46	2	10uF	CL21B106KOQNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 µF, 16 V,+/- 10%, X7R, 0805	0805
C32, C40	2	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V,+/- 10%, X7R, 0603	0603
C33, C39, C42	3	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0603	0603
C36, C41, C43,	11	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C45, C54, C55,						
C56, C57, C58,						
C60, C61						
C38	1	1000pF	GRM1885C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C48	1	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 µF, 100 V,+/- 10%, X7R, 0603	0603
C49	1	2.2uF	C2012X7R1V225K085AC	TDK	CAP, CERM, 2.2 µF, 35 V,+/- 10%, X7R, 0805	0805
C50	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
C51	1	2200pF	06031C222JAT2A	AVX	CAP, CERM, 2200 pF, 100 V,+/- 5%, X7R, 0603	0603
C52, C53, C68,	6	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, 0603	0603
C69, C70, C71		4 7 5	000051/7004 4751/00045	TDI	04D 05DM 47 5 400 V / 400/ V70 4040	1010
C59		4.7uF	C3225X7S2A475K200AE	TDK	CAP, CERM, 4.7 µF, 100 V,+/- 10%, X7S, 1210	1210
C62		56pF	GRM1885C1H560JA01D	MuRata	NC	0603
C63	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C64		56pF	GRM1885C1H560JA01D	MuRata	CAP, CERM, 56 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C65	2	3300pF	GRM188R71H332KA01D GRM21BR71C475KA73L	MuRata MuRata	CAP, CERM, 3300 pF, 50 V,+/- 10%, X7R, 0603	0603 0805
C66, C67		4.7uF		ON Semiconductor	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X7R, 0805 Diode, Zener, 3.6 V, 500 mW, SOD-123	SOD-123
D1, D28, D29, D35	4	3.6V	MMSZ4685T1G	ON Semiconductor	Diode, Zener, 3.6 V, 500 mvv, SOD-123	SUD-123
D2, D3, D4, D5,	13	5.6V	BZT52C5V6T-7	Diodes Inc.	Diode, Zener, 5.6 V, 300 mW, SOD-523	SOD-523
D6, D7, D8, D9,	'0	0.0 V	B210200V01-1	Blodes inc.	Blode, Zerier, 5.5 v, 500 mvv, GOB-520	00D-020
D10, D12, D13,						
D14, D15						
D11, D17, D18,	5	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D20, D42				2.5253 1116.		100 120
D16, D38	2	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D19, D22	2	20V	SBR0220T5-7	Diodes Inc.	Diode, Super Barrier Rectifier, 20 V, 0.2 A, SOD-523	SOD-523
D21	1	3.3V	MMSZ5226BS-7-F	Diodes Inc.	Diode, Zener, 3.3 V, 200 mW, SOD-323	SOD-323
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Display Disp	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Doctors Doct							
Display Disp					11 31 111 2131111 311111	,	
DA6	D30, D31, D45,	4	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
1							
1033.039,041 3 100V BAT49W7-F Diodes Inc. Diode, Schott, 100V, 100V, 101A, SOD-123 SOD-123	D32	1	24V	NUP3105LT1G	ON Semiconductor	Diode, TVS, Bi, 24 V, SOT-23	SOT-23
1 5.1 V MMSZC231B-7-F Diodes Inc. Diode, Zener, 5.1 V., 500 r/M, SDD-123 SDD-123 D43, D47 D43, D47 D44, D48 2 60 V SMB_60A-13-F Diodes Inc. Diode, Zener, 16 V. 20 V. SMB SMB D44, D48 2 60 V SMB_60A-13-F Diodes Inc. Diode, Zener, 16 V. 20 V. SMB SMB D44, D48 2 60 V SMB_60A-13-F Diodes Inc. Diode, Zener, 16 V. 20 V. SMB SMB D44, D48 2 60 V SMB_60A-13-F Diodes Inc. Diode, Zener, 16 V. 20 V. SMB SMB SMB D44, D45 D46, D46, D46, D46, D46, D46, D46, D46,	D33, D39, D41	3	100V		Diodes Inc.		SOD-123
Da6, D37, D44, D48	D34	1	5.1V	MMSZ5231B-7-F	Diodes Inc.		SOD-123
D44, D48	D36, D37, D40,						
F1 CLM2213P5030C-AN POLYTRONICS Fuse, 30 A, 125 VAC, 72 VDC, SMD 10,133,12mm 11,12,16,17 4 8199 Keystone TERMINAL SCREW PC 30ANP, TH 12,966,37,9 mm 12,196,37 4 8199 Keystone TERMINAL SCREW PC 30ANP, TH 12,966,37,9 mm 12,266,37,9 mm	D43, D47						
F2	D44, D48	2	60V	SMBJ60A-13-F	Diodes Inc.	Diode, TVS, Uni, 60 V, 96.8 Vc, SMB	SMB
J.	F1	1		CLM2213P5030C-AN	POLYTRONICS	Fuse, 30 A, SMD	9.5x2x5mm
13, J4, J5 3 22.23.2021 Molex Header, 2.54mm, 2x1, Vertical, TH Header, 2.54mm, 2x1,	F2	1		0456030.ER	Littelfuse	Fuse, 30 A, 125 VAC, 72 VDC, SMD	10.1x3.12mm
Color Colo	J1, J2, J6, J7	4		8199	Keystone	TERMINAL SCREW PC 30AMP, TH	12.9x6.3x7.9 mm
1	J3, J4, J5	3		22-23-2021	Molex	Header, 2.54mm, 2x1, Vertical, TH	Header, 2.54mm, 2x1,
L2, L3, L4, L5, L6, L6, L6, L6, L7							
P1	L1						
P1		6	600 ohm	74279265	Wurth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 0.2 A, 0603	0603
P2, P3	L7						
P4,P5		1				·	
P6					Wurth Elektronik		
Q1, Q2, Q3, Q4, Q5, Q5, Q5, Q5, Q5, Q5, Q5, Q5, Q5, Q5		2					
0.5. 0.6. 0.7. 0.8,					Wurth Elektronik		
Q9, Q10, Q11, Q11, Q12, Q15	Q1, Q2, Q3, Q4,	13	20V	DMG2302UK-7	Diodes Inc.	MOSFET, N-CH, 20 V, 2.8 A, AEC-Q101, SOT-23	SOT-23
Q12, Q13	Q5, Q6, Q7, Q8,						
Q14, Q17, Q21, 5 100V BSS123 Fairchild Semiconductor MOSFET, N-CH, 100 V, 0.17 A, SOT-23 SOT-23	Q9, Q10, Q11,						
Q24, Q25	Q12, Q13						
Q15, Q16, Q26, Q27		5	100V	BSS123	Fairchild Semiconductor	MOSFET, N-CH, 100 V, 0.17 A, SOT-23	SOT-23
Q31							
Q18, Q19 2 2-20V FDN302P Fairchild Semiconductor MOSFET, P-CH, -20 V, -2.4 A, SOT-23 SOT-23		4	-100V	ZXMP10A13FTA	Diodes Inc.	MOSFET, P-CH, -100 V, -0.6 A, SOT-23	SOT-23
Q20, Q27 2 60V 2N7002 Fairchild Semiconductor MOSFET, N-CH, 60 V, 115 A, SOT-23 SOT-23 Q22 1 -50V BSS84-7-F Diodes Inc. MOSFET, P-CH, -50 V, -0.13 A, SOT-23 SOT-23 Q28, Q29, Q30, Q28, Q29, Q30, Q32, Q33, Q34 6 100V CSD19536KTT Texas Instruments MOSFET, N-CH, 100 V, 200 A, KTT0002A (TO-263-2) KTT0002A R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R26, R27, R28, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R41, R42, R43, R44, R45, R46 RES, 80.6, 1%, 0.25 W, 1206 RES, 1.00 k, 1%, 0.1 W, 0603 0603 R14, R15, R16, R30, R31, R32, R31, R32, R31, R32, R34, R50, R54, R63, R64, R63, R64, R64 R64 Vishay-Dale RES, 1.00 k, 1%, 0.1 W, 0603 0603	Q31						
Q22 1 -50V BSS84-7-F Diodes Inc. MOSFET, P-CH, -50 V, -0.13 A, SOT-23 SOT-23 Q23 1 60V 2N7002W-7-F Diodes Inc. MOSFET, N-CH, 60 V, 0.115 A, SOT-323 SOT-323 Q28, Q29, Q30, Q32, Q33, Q34 6 100V CSD19536KTT Texas Instruments MOSFET, N-CH, 100 V, 200 A, KTT0002A (TO-263-2) KTT0002A R1, R2, R3, R4, R5, R6, R7, R8, R9, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R41, R42, R43, R44, R45, R46 R61, R1, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R64, R64 Vishay-Dale RES, 1.00 k, 1%, 0.1 W, 0603 0603							
Q23 1 60V 2N7002W-7-F Diodes Inc. MOSFET, N-CH, 60 V, 0.115 A, SOT-323 SOT-323 Q28, Q29, Q30, Q33, Q34 6 100V CSD19536KTT Texas Instruments MOSFET, N-CH, 100 V, 200 A, KTT0002A (TO-263-2) KTT0002A R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R41, R42, R43, R44, R45, R46 RES, 80.6, 1%, 0.25 W, 1206 1206 R11, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R63, R64, R64 R60 CRCW06031K00FKEA Vishay-Dale RES, 1.00 k, 1%, 0.1 W, 0603 0603		2					
Q28, Q29, Q30, Q32, Q33, Q34 6 100V CSD19536KTT Texas Instruments MOSFET, N-CH, 100 V, 200 A, KTT0002A (TO-263-2) KTT0002A R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 23 RES, 80.6, 1%, 0.25 W, 1206 1206 R1, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R63, R64, R29, R30, R40, R44, R45, R46 RES, 1.00 k, 1%, 0.1 W, 0603 RES, 1.00 k, 1%, 0.1 W, 0603	Q22						
Q32, Q33, Q34 R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R63, R64, R64, R64, R64, R64, R64, R64, R64							
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R9, R64, R63, R64, R9, R64, R65, R64, R65, R66, R66, R66, R66, R66, R66, R66		6	100V	CSD19536KTT	Texas Instruments	MOSFET, N-CH, 100 V, 200 A, KTT0002A (TO-263-2)	KTT0002A
R5, R6, R7, R8, R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R64, R64, R64, R64, R64, R65, R65, R64, R65, R64, R65, R64, R65, R64, R65, R64, R65, R64, R65, R65, R64, R65, R65, R64, R65, R64, R65, R65, R65, R65, R65, R65, R65, R65							
R9, R10, R22, R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64,		26	80.6	CRCW120680R6FKEA	Vishay-Dale	RES, 80.6, 1%, 0.25 W, 1206	1206
R23, R24, R25, R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R14, R15, R16, R30, R31, R32, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64,							
R26, R27, R28, R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R54, R64, R40, R40, R40, R40, R40, R40, R40, R4							
R29, R39, R40, R41, R42, R43, R44, R45, R46 R11, R12, R13, R13, R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64, R54, R64, R54, R64, R54, R64, R54, R64, R54, R64, R54, R65, R64, R55, R64, R55, R64, R55, R55, R55, R55, R55, R55, R55, R5							
R41, R42, R43, R44, R45, R46							
R44, R45, R46							
R11, R12, R13,							
R14, R15, R16, R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64,							
R30, R31, R32, R33, R34, R50, R51, R52, R53, R54, R63, R64,		23	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R33, R34, R50, R51, R52, R53, R54, R63, R64,	R14, R15, R16,						
R51, R52, R53, R54, R53, R64, R54, R55, R54, R55, R55, R55, R55, R5							
R54, R63, R64,							
	R51, R52, R53,						
R65 R95 R96	R54, R63, R64,						
	R65, R95, R96,						
R97, R99	R97, R99						

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R17, R18, R19,	14	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R20, R21, R35,		TOK	GITOVVOCCO TORCONE/T	Visitay-Baic	1 10 K, 070, 0.1 VV, 0000	
R36, R37, R38,						
R55, R56, R57,						
R58, R66						
R47, R49, R87	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R48, R100	2	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R59, R69, R106,	4	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
R112						
R60	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, 0603	0603
R61, R84, R85,	12	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R98, R107, R108,						
R111, R113,						
R117, R120,						
R124, R127		1014		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2000
R62, R103, R105,	6	10Meg	CRCW060310M0JNEA	Vishay-Dale	RES, 10 M, 5%, 0.1 W, 0603	0603
R110, R114, R121						
R67	1	360k	ERJ-3EKF3603V	Panasonic	RES, 360 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R68	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R70, R104	2	3.3Meg	CRCW06033M30JNEA	Vishay-Dale Vishay-Dale	RES, 3.3 M, 5%, 0.1 W, 0603	0603
R71, R72	2	505k	RT0603BRD07505KL	Yageo America	RES, 505 k, 0.1%, 0.1 W, 0603	0603
R73, R102	2	16.5k	RT0603BRD0716K5L	Yageo America	RES, 16.5 k, 0.1%, 0.1 W, 0603	0603
R74, R115	2	47.0	RC0603FR-0747RL	Yageo America	RES, 47.0, 1%, 0.1 W, 0603	0603
R75, R81, R83,	7	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R88, R89, R90,				'		
R91						
R76, R77, R78,	5	470	RC0603FR-07470RL	Yageo America	RES, 470, 1%, 0.1 W, 0603	0603
R79, R80				_		
R82	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R86	1	6.8k	CRCW06036K80JNEA	Vishay-Dale	RES, 6.8 k, 5%, 0.1 W, 0603	0603
R92, R93	2	60.4	RC0603FR-0760R4L	Yageo America	RES, 60.4, 1%, 0.1 W, 0603	0603
R94	1	120	RC0603FR-07120RL	Yageo America	RES, 120, 1%, 0.1 W, 0603	0603
R101	1	665k	RT0603BRD07665KL	Yageo America	RES, 665 k, 0.1%, 0.1 W, 0603	0603
R109	1	510	CRCW0603510RJNEA	Vishay-Dale	RES, 510, 5%, 0.1 W, 0603	0603
R116	1	2.49Meg	CRCW06032M49FKEA	Vishay-Dale	RES, 2.49 M, 1%, 0.1 W, 0603	0603
R118, R119	2	0.002	CSNL2512FT2L00	Stackpole Electronics Inc	RES, 0.002, 1%, 2 W, 2512	2512
R122	1	6.8Meg	CRCW06036M80JNEA	Vishay-Dale	RES, 6.8 M, 5%, 0.1 W, 0603	0603
R123	1	3.0Meg	CRCW06033M00JNEA	Vishay-Dale	RES, 3.0 M, 5%, 0.1 W, 0603	0603
R125	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R126 R128	1	115k 383k	CRCW0603115KFKEA RC0603FR-07383KL	Vishay-Dale Yageo America	RES, 115 k, 1%, 0.1 W, 0603	0603 0603
R129	1	383k	RC0603FR-07383KL	Yageo America	RES, 383 k, 1%, 0.1 W, 0603	0603
R130	1	240k	CRCW0603240KJNEA	Vishay-Dale	RES, 240 k, 5%, 0.1 W, 0603	0603
R131	1	715k	CRCW0603240KJNEA	Vishay-Dale Vishay-Dale	RES, 715 k, 1%, 0.1 W, 0603	0603
R132, R133	2	604	CRCW2512604RFKEG	Vishay-Dale Vishay-Dale	RES, 604, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
RT1, RT2, RT3,	4	10k ohm	NTCALUG03A103G	Vishay-Bccomponents	Thermistor NTC, 10k ohm, 2%, NTC Thermistor, Mini Lug Sensor, Pitch	NTC Thermistor, Mini
RT4	•			liona, Becomponente	1.5mm	Lug Sensor, Pitch
						1.5mm
S1, S2	2		RS-032G05A3-SM RT	C&K Components	Switch, Tactile, SPST-NO, 0.05A, 12V, SMD	SPST, 6x3.5mm
T1	1	475uH	760390012	Wurth Elektronik	Transformer, 475 uH, SMT	7.14x6.73mm
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Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		BQ7694003DBTR	Texas Instruments	9 to 15-Series Cell Li-Ion and Li-Phosphate Battery Monitor (bq76940	DBT0044A
					Family), DBT0044A (TSSOP-44)	
U2, U10	2		TLV70433DBVR	Texas Instruments	1 3 - 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	DBV0005A
					Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no	
					Sb/Br)	
U3	1 1		MSP430FR2155TDBTR	Texas Instruments	24MHz 105C ULP Microcontroller With 32 KB FRAM, 4 KB SRAM, 44 IO,	DBT0038A
					12-bit ADC, DBT0038A (TSSOP-38)	
U4	1		BQ34Z100PWR-G1	Texas Instruments	Multi-Chemistry Impedance Track Standalone Fuel Gauge	PW0014A
U5, U6, U7	3		TLP293(GB-TPL,E	Toshiba	Optocoupler, 3.75 kV, 100-600% CTR, SMT	SOP, 4-Leads, Body
						2.65x4.60mm, Pitch
						1.27mm
U8	1		SN6501DBVR	Texas Instruments	Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-23-5)	DBV0005A
U9	1		ISO1042BDWVR	Texas Instruments	Reinforced Isolated CAN XCVRs with 70V Protection Voltage and CAN	DWV0008A
					FD, DWV0008A (SOIC-8)	
U11	1		THVD1500DR	Texas Instruments	250 kbps RS-485 Transceivers With +/-12-kV IEC ESD Protection,	D0008A
					D0008A (SOIC-8)	
U12	1		TLV70450DBVT	Texas Instruments	Single Output LDO, 150 mA, Fixed 5 V Output, 2.5 to 24 V Input, with Ultra	DBV0005A
					Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	
U13	1 1		TPD2E007DCKR	Texas Instruments	ESD Protection Array for AC Signal Data Interface, 2 Channels, -40 to +85	DCK0003A
					degC, 3-pin SC70 (DCK), Green (RoHS & no Sb/Br)	
U14	1		BQ76200PWR	Texas Instruments	High-Side N-Channel FET Driver, PW0016A (TSSOP-16)	PW0016A
U15	1		LM5164DDAT	Texas Instruments	100-V Low IQ Synchronous Buck Regulator, DDA0008E (SOIC-8)	DDA0008E