

TIDM-02010 REV E3 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDM-02010	Any	Printed Circuit Board	
C1, C23	2	10uF	GRM21BR61E106KA73L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	805
C2	1	0.1uF	C2012X7R1H104K085AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	805
C3, C4, C5, C6, C25, C35, C38, C39, C41, C42, C71, C75, C78, C79, C80, C90, C96, C97, C100, C101, C104, C105, C108, C109, C110, C112, C119, C129, C152, C161, C167, C168, C172, C173	34	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	603
C7, C10, C153	3	0.47uF	ECQ-U2A474ML	Panasonic	CAP, Film, 0.47 uF, 275 V, +/- 20%, TH	Radial 25x8.5x18.5
C8, C9, C11, C12, C182	5	2200pF	VY2222M35Y5UG6TV5	Vishay-Bccomponents	CAP, CERM, 2200 pF, X1 440 VAC/Y2 300 VAC, +/- 20%, Y5U, Body9x5mm	Body9x5mm
C13, C180, C181	3	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	805
C14	1	4700pF	AY2472M49Y5US63L7	Vishay-Bccomponents	CAP, CERM, 4700 pF, 300 V, +/- 20%, Y5U, AEC-Q200 Grade 1, D13xT5mm	D13xT5mm
C15	1	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	805
C16	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	603
C17	1	4.7uF	GRM188R6YA475KE15D	MuRata	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X5R, 0603	603
C18, C49, C50, C54, C55, C56, C57, C64, C124, C125, C126, C127, C134, C145, C146, C150, C159, C176	18	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C19, C67, C135, C160	4	0.47uF	ECW-FD2W474Q1	Panasonic	CAP, Film, 0.47 uF, 450 V, +/- 10%, TH	12.6x6.5x12.7mm
C20	1	47uF	450BXW47MEFC12.5X35	Rubycon	CAP, AL, 47 uF, 450 V, +/- 20%, TH	D12.5xL35mm
C21, C40, C43, C44, C45, C46, C47, C111, C114, C115, C116, C117, C118	13	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	603
C22	1	1000pF	GRM31B5C2J102JW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206

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C24, C70, C74, C77, C140, C142, C144, C171	8	0.047uF	06033C473JAT2A	AVX	CAP, CERM, 0.047 uF, 25 V, +/- 5%, X7R, 0603	603
C26	1	1uF	GRM188R71C105KE15D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	603
C27, C28, C31	3	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
C29, C30, C33	3	470uF	EEE-FC1E471P	Panasonic	CAP, AL, 470 uF, 25 V, +/- 20%, 0.15 ohm, SMD	SMT Radial G
C32	1	2700pF	GRM188R71E272KA01D	MuRata	CAP, CERM, 2700 pF, 25 V, +/- 10%, X7R, 0603	603
C34, C36, C37, C87, C93	5	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	603
C48, C123	2	220uF	EEE-FK1E221P	Panasonic	CAP, AL, 220 uF, 25 V, +/- 20%, 0.16 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C51, C52, C53, C120, C121, C122	6	22uF	EEE-FK1H220P	Panasonic	CAP, AL, 22 uF, 50 V, +/- 20%, 0.88 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D
C58, C59, C61, C62, C65, C66, C73, C113, C130, C131, C132, C133, C137, C138, C149, C156, C157, C158, C169, C170, C175, C177	22	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	603
C60, C63, C68, C69, C72, C81, C82, C83, C85, C88, C89, C92, C94, C95, C98, C99, C102, C103, C128, C136, C139, C141, C148, C151, C154	25	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	603
C76, C143	2	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	603
C84, C86, C91	3	6800pF	GRM188R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0603	603
C106, C107	2	2.2uF	CGA3E3X5R1A225K080AB	TDK	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	603
C147, C155	2	10uF	GRM188R6YA106MA73	Nichicon	CAP, CERM, 10 uF, 35 V, +/- 20%, X5R, 0603	603
C162, C163, C164, C165, C166	5	220uF	MAL215747221E3	Vishay-Bccomponents	CAP, AL, 220 uF, 450 V, +/- 20%, 0.45 ohm, TH	25x50mm
C174	1	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
C178	1	0.01uF	GRM216R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0805	805
C179	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, 0603	603
C183	1	100pF	PFR5101J400J11L4BULK	Kemet	CAP, Film, 100 pF, 400 V, +/- 5%, TH	7.2x4.5mm
C184	1	150pF	GRM2165C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, COG/NP0, 0805	805
D1	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
D2	1	200V	BAS21H,115	Nexperia	Diode, Standard Recovery Rectifier, 200 V, 0.2 A, SOD-123F	SOD-123F
D3	1		US1M-E3/61T	Vishay	Diode Standard 1000V 1A Surface Mount DO-214AC (SMA)	DO-214AC
D4, D7	2	80V	B180B-13-F	Diodes Inc.	Diode, Schottky, 80 V, 1 A, SMB	SMB
D5	1	600V	STTH3L06U	STMicroelectronics	Diode, Ultrafast, 600 V, 3 A, SMB	SMB

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D6	1	60V	B360AM-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, AEC-Q101, SMA	SMA
D8	1	16V	MMSZ4703-E3-08	Vishay-Semiconductor	Diode, Zener, 16 V, 500 mW, SOD-123	SOD-123
D9	1	14V	MMSZ4701-E3-08	Vishay-Semiconductor	Diode, Zener, 14 V, 500 mW, SOD-123	SOD-123
D10, D11, D12, D13, D25, D26, D27, D28	8		BZD27C18PWH	Taiwan Semiconductor	Zener Diode Single 18V 5% 150hm 2300mW Automotive 2-Pin SOD-123W T/R	SOD-123W
D14, D15, D16, D29, D30, D31	6	15V	DB2S20500L	Panasonic	Diode, Schottky, 15 V, 0.2 A, SOD-523	SOD-523
D17, D18, D19, D20, D21, D22, D23, D24	8	30V	BAT54SLT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D32	1	600V	GBJ2506-BP	Micro Commercial Component	Diode, P-N-Bridge, 600 V, 25 A, TH	Diode Bridge, TH
D33, D34, D35, D38	4	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D36, D37	2		RURG5060-F085	ON Semiconductor	Diode Switching 600V 50A Automotive 2-Pin(2+Tab) TO-247 Rail	TO-247-2LD
F1	1		0477016.MXEP	Littelfuse	Fuse Miniature Slow Blow Acting 16A 500V Axial 5 X 20mm Ceramic Bulk	AXIAL
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
GT1	1	200V	2035-20-B5	Bourns	Gas Discharge Tube, 2-Pole, TH	5mm Diameter
H2, H3, H5, H6	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
J1, J3, J4, J5, J7, J8, J9, J10, J11	9		63824-1	TE Connectivity	0.250" (6.35mm) Quick Connect Male Solder Connector Non-Insulated	CONN_7MM92_3MM11
J2	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J6	1		22112052	Molex	Header(shrouded), 2.54mm, 5x1, Gold, TH	Header(shrouded), 2.54mm, 5x1, TH
J12	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
J13	1		923345-07-C	3M	Jumper Wire, 700mil spacing, Violet, pkg of 150, TH	700 mil Jumper Wire
J14	1		61900811121	Würth Elektronik	Header(shrouded), 2.54mm, 8x1, Tin, TH	Header(shrouded), 2.54mm, 8x1, TH
J15	1		923345-10-C	3M		JUMPER2
J16	1		5104	Keystone	Shorting Jumper, 10.7mm, 2 Position, Tin, SMT	Shorting Jumper, 10.7mm, 2 Position, SMT
J17	1		22-27-2021	Molex	Header (friction lock), 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
J18	1		22-27-2041	Molex	Header (friction lock), 2.54mm, 4x1, Tin, TH	Header, 2.54mm, 4x1, TH
K1	1		G6DN-1A DC5	Omron Electronic Components	Relay, SPST-NO (1 Form A), 5 A, 5 V, TH	19.97x5.05mm
K2	1		G4A-1A-PE DC12	Omron Electronic Components	Relay, SPST-NO (1 Form A), 20 A, 12 V, TH	4-Pin THD, Body 30.5 x 16 mm, Height 26.8 mm
L1	1		7.44831E+11	Würth Electronics	1mH @ 10kHz 2 Line Common Mode Choke Through Hole 20.5A DCR 5.5mOhm	PTH_CHOKE_46MM528MM0
L2, L3	2	30 ohm	BLM21PG300SH1D	MuRata	Ferrite Bead, 30 ohm @ 100 MHz, 4 A, 0805	805
L4, L5	2	355uH	760800202	Würth Electronics	Inductor 355.00µH ±20% 20A 0.035 ohms max.	PTH2_D45MM0_H48MM0
L6	1	340uH	750343810	Würth Elektronik	Inductor, Toroid, 340 µH, 15 A, 0.05 ohm, TH	D66.04xL39.88mm
LED1	1	Blue	150060BS75000	Würth Elektronik	LED, Blue, SMD	LED_0603
LED2	1	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
LED3	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603

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LED4	1	Green	150060GS75000	Wurth Elektronik	LED, Green, SMD	LED_0603
LED5	1	Super Red	150060SS75000	Wurth Elektronik	LED, Super Red, SMD	LED_0603
Q1	1	40 V	SMBT 2222A E6327	Infineon Technologies	Transistor, NPN, 40 V, 0.6 A, AEC-Q101, SOT-23	SOT-23
Q2	1		IPN70R1K2P7SATMA1	Infineon	N-Channel 700V 4.5A (Tc) 6.3W (Tc) Surface Mount PG-SOT223	SOT223-3
Q3, Q4	2	600V	IPW60R070C6FKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 53 A, TO-247	TO-247
Q5, Q6, Q9, Q10	4		SSM3K15ACTC	Toshiba	N-Channel MOSFET	
Q7, Q11	2		SSM3J15CT	Toshiba	P-Channel MOSFET	E3
Q8	1	20V	CSD15380F3	Texas Instruments	MOSFET, N-CH, 20 V, 0.5 A, YJM0003A (PICOSTAR-3)	YJM0003A
R1, R3	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R2, R10, R215, R216	4	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
R4	1	2.0k	PR03000202001JAC00	Vishay-Bccomponents	RES, 2.0 k, 5%, 3 W, D5.20xL16.70mm	D5.20xL16.70mm
R5	1	4.7k	CRCW08054K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.125 W, 0805	805
R6, R8, R9, R11, R24, R31, R138, R161, R183, R184	10	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	603
R7, R63, R64, R80, R85, R87, R88, R90, R91, R124, R125, R192, R194, R195	14	4.70k	RC0603FR-074K7L	Yageo	RES, 4.70 k, 1%, 0.1 W, 0603	603
R12	1	36.0k	RC0603FR-0736KL	Yageo	RES, 36.0 k, 1%, 0.1 W, 0603	603
R13	1	13.7k	RC0603FR-0713K7L	Yageo	RES, 13.7 k, 1%, 0.1 W, 0603	603
R14, R210, R211, R213	4	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	805
R15	1	1.10k	CRCW06031K10FKEA	Vishay-Dale	RES, 1.10 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R16, R167, R218	3	0	5108	Keystone	RES, 0, 1%, 0.5 W, 1206	1206
R17	1	510k	CRCW1206510KJNEA	Vishay-Dale	RES, 510 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R18	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R19, R20	2	1	RC1206FR-071RL	Yageo America	RES, 1.00, 1%, 0.25 W, 1206	1206
R21	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R22	1	22.0k	RC0603FR-0722KL	Yageo	RES, 22.0 k, 1%, 0.1 W, 0603	603
R23	1	1.50k	ERJ-3EKF1501V	Panasonic	RES, 1.50 k, 1%, 0.1 W, 0603	603
R25, R29	2	2.0k	CRCW12062K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.25 W, 1206	1206
R26, R54, R55, R57, R58, R66, R67, R141, R142, R148, R149, R155, R156, R179, R182, R212	16	20	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R27	1	37.4k	RC0603FR-0737K4L	Yageo	RES, 37.4 k, 1%, 0.1 W, 0603	603
R28, R43, R44, R45, R46, R51, R52	7	7.50k	RC0603FR-077K5L	Yageo	RES, 7.50 k, 1%, 0.1 W, 0603	603

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R30, R73, R94, R95, R96, R98, R99, R100, R101, R104, R105, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R127, R204, R205	24	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R32, R33, R34, R35, R36, R37, R47, R48, R81, R82, R83, R84, R92, R118, R119, R120, R121, R122, R123, R135, R168, R185, R206, R207, R208, R214	26	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R38, R106, R107, R128	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R39, R40, R41, R42, R49, R50, R68, R86, R89, R126, R129, R130, R131, R132, R143, R144, R196, R197	18	825	CRCW0603825RFKEA	Vishay-Dale	RES, 825, 1%, 0.1 W, 0603	603
R53, R56, R65	3	0.01	CSR2512C0R01F	Riedon	RES, 0.01, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
R59, R60, R61, R69, R70, R71, R75, R76, R77, R150, R151, R152, R157, R158, R159, R162, R163, R164, R169, R170, R171, R173, R174, R175, R198, R199, R200, R201, R202	29	332k	ERJ-8ENF3323V	Panasonic	RES, 332 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R62, R72, R78, R153, R160, R165	6	8.20k	RC0603FR-078K2L	Yageo	RES, 8.20 k, 1%, 0.1 W, 0603	603
R74	1	1.00k	ERJ-8ENF1001V	Panasonic	RES, 1.00 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R79, R166	2	2.00k	RC0603FR-072KL	Yageo	RES, 2.00 k, 1%, 0.1 W, 0603	603
R93	1	2.20k	RC0603FR-072K2L	Yageo	RES, 2.20 k, 1%, 0.1 W, 0603	603

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R97, R102, R103	3	150	RC0603FR-07150RL	Yageo	RES, 150, 1%, 0.1 W, 0603	603
R133, R134, R136, R137, R145, R146	6	3.30k	RC0603FR-073K3L	Yageo	RES, 3.30 k, 1%, 0.1 W, 0603	603
R139	1	8.25k	CRCW06038K25FKEA	Vishay-Dale	RES, 8.25 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R140, R147, R154	3	0.1	CRM2512-FX-R100ELF	Bourns	RES, 0.1, 1%, 2 W, 2512	2512
R172, R176	2	4.02k	RC0603FR-074K02L	Yageo	RES, 4.02 k, 1%, 0.1 W, 0603	603
R177, R190	2	3.6	RC1206FR-073R6L	Yageo America	RES, 3.60, 1%, 0.25 W, 1206	1206
R178, R191	2	10	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
R180, R181	2	0.02	CSR2512C0R1F	RIDEON	RES, 0.02, 1%, 3 W, 2512	2512
R186, R189	2	10.0k	RT0805DRE0710KL	Yageo America	RES, 10.0 k, 0.5%, 0.125 W, 0805	805
R187, R188	2	4.99k	CRCW06034K99FKEAC	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	603
R193	1	200	RC0603FR-07200RL	Yageo	RES, 200, 1%, 0.1 W, 0603	603
R203	1	6.80k	RC0603FR-076K8L	Yageo	RES, 6.80 k, 1%, 0.1 W, 0603	603
R209	1	0	D55342E07B000ATTR	State of the Art	RES, 0, 1%, 0.25 W, 1206	1206
R217	1	1.50k	CRCW08051K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
RT1	1	22	B59215J0130A020	TDK-EPCOS	THERMISTOR PTC 22 OHM 265V	PTC-J215- 18MMX14MM
RV1, RV2, RV3, RV4	4	275V	S10K275E2	TDK	Varistor 275V RMS 10MM Radial, TH	10mm Radial
T1	1		750318383	Würth Electronics	TRANSFORMER	PTH_29MM0_21MM5
TP3, TP4, TP5, TP9, TP11	5		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
TP6, TP7, TP8, TP10	4		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
U1	1		TMS320F280025CPMSR	Texas Instruments	32-bit MCU with 100 MHz, FPU, TMU, 128-KB flash, CLB 64-LQFP -40 to 125	LQFP64
U2	1		CAT24C32WI-GT3	ON Semiconductor	32-Kb I2C CMOS Serial EEPROM, SOIC-8	SOIC-8
U3	1		TPL7407L		7-Channel Low Side Driver, 0 to 40 V VOUT, -40 to 125 degC, 16-Pin TSSOP (PW), RoHS, Tape and Reel	PW0016A
U4, U12, U15	3		FOD817DS	Fairchild Semiconductor	Optocoupler, 5 kV, 300-600% CTR, SMT	DIP-4L Gullwing
U5, U7, U9, U10, U13, U14	6		TLV9062IDR	Texas Instruments	10-MHz, Low-Noise, RRIO, CMOS Operational Amplifier for Cost-Sensitive Systems, D0008A (SOIC-8)	D0008A
U6	1		FSBB20CH60D	ON Semiconductor	Power Driver Module IGBT 3 Phase Inverter 600V 20A 27-PowerDIP Module (1.205", 30.60mm)	SPMCA-027
U8	1		FNB40560	ON Semiconductor	Power Driver Module IGBT 3 Phase 600V 5A 26-PowerDIP Module (1.024", 26.00mm)	CDIP-026
U11	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A (SOIC-7)	D0007A
U16	1		TLV76733DRVT	Texas Instruments	Linear Voltage Regulator IC 1 Output 1A 6-WSO (2x2)	WSO6
U17	1		TL431LIACDBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
U18	1		TLV76012DBZR	Texas Instruments	100-mA, 30-V, Fixed-Output, Linear-Voltage Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
U19, U20	2		UCC27517ADBVR	Texas Instruments	4A/4A Single Channel High-speed Low-side Gate Driver with 5V Negative Input Voltage Handling Ability, DBV0005A (SOT-23-5)	DBV0005A
U21	1		UCC27525DSDR	Texas Instruments	Dual, 5A, High-Speed Low-Side Power MOSFET Driver, DSD0008D (WSO-8)	

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