

TIDA-010008_IO-Power+protection_BIDIR REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C70	2	0.022uF	C0603C223K4RACTU	Kemet	CAP, CERM, 0.022 μ F, 16 V, +/- 10%, X7R, 0603	0603
C2, C6, C108	3	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 μ F, 6.3 V, +/- 10%, X7R, 0603	0603
C3, C5, C16, C29, C31, C34, C75, C76, C80, C81, C82, C83, C84, C85, C97, C101, C109, C116, C118	19	0.1uF	C0603C104K5RECAUTO	Kemet	CAP, CERM, 0.1 μ F \pm 10% 50V Ceramic Capacitor X7R 0603	0603
C4, C7, C11, C19, C36, C38, C39, C53, C61, C65, C71, C72, C86, C88, C89, C103, C105, C115	18	0.1uF	GMK107BJ104KAHT	Taiyo Yuden	0.1 μ F \pm 10% 35V Ceramic Capacitor X5R 0603	0603
C8, C22, C23, C55, C63, C69	6	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 μ F \pm 10% 25V Ceramic Capacitor X7R 0603	0603
C9	1	1000pF	1206GC102KAZ1A	AVX	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
C10, C14, C15	3	100pF	GCM1885C1H101JA16D	Murata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C12, C27, C32, C91	4	1uF	C2012X7R1H105K125AE	MuRata	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0805	0805
C13, C18, C62, C68, C106	5	10uF	C1210C106M5RACTU	Kemet	CAP, CERM, 10 μ F \pm 20% 50V Ceramic Capacitor X7R 1210	1206
C20, C21, C24, C25	4	0.01uF	GRM2195C1H103JA01D	MuRata	CAP, CERM, 0.01 μ F, 50 V, +/- 5%, C0G/NP0, 0805	0805
C26, C28, C33, C117	4	1uF	CL21B105KPFNNNE	Samsung Electro-Mechanics	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	0805
C30, C35	2	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	0603
C37, C41, C73	3	1uF	CGB3B3X7R0J105K055AB	TDK Corporation	CAP, CERM, 1 μ F, 6.3 V, +/- 10%, X7R, 0603	0603
C40, C64, C66, C107	4	2.2uF	C0805C225K8RACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0805	0805
C42	1	4.7uF	293D475X9025C2TE3	Vishay-Sprague	CAP, TA, 4.7 μ F, 25 V, +/- 10%, 2 ohm, SMD	6032-28
C43, C44, C45, C54, C56, C57, C58, C59, C98, C99	10	4.7uF	C3216X7R1E475M160AC	TDK	CAP, CERM, 4.7 μ F, 25 V, +/- 20%, X7R, 1206	1206
C46, C51, C60, C67	4	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 μ F, 6.3 V, +/- 10%, X7R, 0603	0603
C47, C48	2	22uF	EMK316BB7226ML-T	Taiyo Yuden	CAP, CERM, 22 μ F, 16 V, +/- 20%, X7R, 1206	1206
C49	1	0.22uF	C0603C224K9RACTU	Kemet	CAP, CERM, 0.22 μ F, 6.3 V, +/- 10%, X7R, 0603	0603
C50, C52	2	10pF	CL10C100JB8NCNC	Samsung Electro-Mechanics	CAP, CERM, 10pF \pm 5% 50V Ceramic Capacitor C0G, NP0 0603	0603
C74	1	0.01uF	C0603C103K2RACTU	Kemet	CAP, CERM, 0.01 μ F, 200 V, +/- 10%, X7R, 0603	0603
C77, C78, C79	3	10uF	T491B106K016AT	Vishay-Sprague	CAP, TA, 10 μ F, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C87, C95, C96	3	10uF	C2012X5R1E106K085AC	TDK Corporation	CAP, CERM, 10 μ F, 25 V, +/- 10%, X5R, 0805	0805
C90	1	22pF	06035A220JAT2A	AVX	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603

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C92	1	4.7uF	LD05YC475KAB2A\500	AVX	CAP, CERM, 4.7µF ±10% 16V Ceramic Capacitor X7R 0805	0805
C93, C94	2	100pF	06031A101GAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C100	1	470pF	GRM2165C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V,+/- 5%, C0G/NP0, 0805	0805
C102, C104	2	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C110, C111, C112, C113	4	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0603	0603
C114	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
D1	1	Red	LTST-C190CKT	Lite-On	LED, Red, SMD	Red LED, 1.6x0.8x0.8mm
D2	1	60V	B360A-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, SMA	SMA
D3	1	Green	LNJ337W83RA	Panasonic	LED, Green, SMD	1.6x0.8mm
D4	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
D5, D6	2	3.9V	PTZTE253.9B	Rohm Semiconductor	DIODE ZENER 4.1V 1W PMDS	DO-214AC, SMA
D7, D8	2	Green	LG M67K-G1J2-24-Z	OSRAM	LED, Green, SMD	2x1.4mm
D9	1	30V	MBR0530T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.5 A, SOD-123	SOD-123
D10, D15	2	20V	MBRM120ET1G	ON Semiconductor	Diode, Schottky, 20 V, 1 A, POWERMITE	POWERMITE
D11, D12, D13, D14	4	15V	1SMB5929BT3G	ON Semiconductor	Diode, Zener, 15 V, 550 mW, SMB	SMB
H1, H2, H3, H4, H5, H6, H7, H8, H9, H10	10		SJ61A1	3M	Bumpon, Cylindrical, 0.312 X 0.200, Black	Black Bumpon
J1, J2, J3, J5, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J23	20		282834-2	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	Terminal Block, 2x1, 2.54mm, TH
J4	1		1844236	Phoenix Contact	Terminal Block, 4x1, 3.5mm, Green, R/A, TH	Terminal Block, 4x1, 3.5mm, R/A, TH
J6	1		TSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	5x1 Header
J22	1		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
L1, L2	2	4.7uH	VLF504012MT-4R7M	TDK	Inductor, Shielded, Ferrite, 4.7 µH, 1.83 A, 0.1 ohm, SMD	IND 5x1.2x4mm
L3, L5	2	2.2uH	DFE252012F-2R2M=P2	MuRata Toko	Inductor, Shielded, Powdered Iron, 2.2 µH, 2.3 A, 0.082 ohm, SMD	2.5x1.2x2mm
L4	1	1uH	IFSC0806AZER1R0M01	Vishay-Dale	Inductor, Shielded, Ferrite, 1 uH, 1.6 A, 0.115 ohm, SMD	Inductor, 2x1x1.6mm
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
Q1, Q2	2	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 22 A, DQK0006C (WSON-6)	DQK0006C
R1, R6	2	560	RC0603FR-07560RL	Yageo America	RES, 560, 1%, 0.1 W, 0603	0603
R2, R4, R5, R21, R22, R90	6	1.00k	RG1608P-102-B-T5	Susumu Co Ltd	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
R3, R8, R73, R74	4	2.49k	SMM02040C2491FB300	Vishay/Beyschlag	RES, 2.49 k, 1%, .25 W, AEC-Q200 Grade 1, 1.4x3.6mm	1.4x3.6mm
R7	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R10	1	3.9k	RC0603JR-073K9L	Yageo America	RES, 3.9 k, 5%, 0.1 W, 0603	0603
R12, R13, R14, R15, R16, R83, R87, R97, R102, R103, R112, R113, R128, R131, R149, R152, R153	17	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603

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R19	1	2.55k	CRCW12062K55FKEA	Vishay-Dale	RES, 2.55 k, 1%, 0.25 W, 1206	1206
R20	1	7.50k	RC0603FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R23	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, 1206	1206
R24, R26, R30, R32, R34, R36, R40, R42, R109, R111, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166	20	10.0	ERJ-P6WF10R0V	Panasonic	RES, 10.0, 1%, 0.5 W, AEC-Q200 Grade 0, 0805	0805
R25, R27, R28, R29, R31, R33, R35, R37, R38, R39, R41, R43	12	10.0k	RR1220P-103-D	Susumu Co Ltd	RES, 10.0 k, 0.5%, 0.1 W, 0805	0805
R44, R69	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R46	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.25W, 1206	1206
R47, R51, R53, R58, R59, R61, R65, R67, R88, R94, R95, R118, R132, R135, R145, R148	16	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R48, R70, R71, R155, R156	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R49	1	576k	CRCW0603576KFKEA	Vishay-Dale	RES, 576 k, 1%, 0.1 W, 0603	0603
R50, R54, R55	3	49.9k	RG1608P-4992-B-T5	Susumu Co Ltd	RES, 49.9 k, 0.1%, 0.1 W, 0603	0603
R52	1	620k	CRCW0603620KFKEA	Vishay-Dale	RES SMD 620K OHM 1% 1/10W 0603	0603
R56	1	1.00	CR0603-J/-1R0ELF	Bourns inc	RES SMD 1 OHM 5% 1/10W 0603	0603
R57	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R60, R62	2	274k	CRCW0603274KFKEA	Vishay-Dale	RES, 274 k, 1%, 0.1 W, 0603	0603
R63	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
R64, R68, R110	3	110	RR1220P-111-D	Susumu Co Ltd	RES, 110, 0.5%, 0.1 W, 0805	0805
R66	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R72	1	1.00k	ERJ-P06F1001V	Panasonic	RES, 1.00 k, 1%, 0.25 W, 0805	0805
R75	1	5.62k	RC0603FR-075K62L	Yageo America	RES, 5.62 k, 1%, 0.1 W, 0603	0603
R76	1	68.1k	CRCW120668K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.25 W, 1206	1206
R77	1	61.9k	RC1206FR-0761K9L	Yageo America	RES, 61.9 k, 1%, 0.25 W, 1206	1206
R78	1	50	RC1608F49R9CS	Samsung Electro-Mechanics	RES SMD 49.9 OHM 1% 1/10W 0603	0603
R79	1	1.07k	ERA-3AEB1071V	Panasonic	RES SMD 1.07KOHM 0.1% 1/10W 0603	0603
R80	1	11.8k	CRCW120611K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.25 W, 1206	1206
R81, R129	2	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R82, R84	2	470k	RR1220P-474-D	Susumu Co Ltd	RES, 470 k, 0.5%, 0.1 W, 0805	0805
R85	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R86	1	160k	RR1220P-164-D	Susumu Co Ltd	RES, 160 k, 0.5%, 0.1 W, 0805	0805
R89	1	47k	RC0603JR-0747KL	Yageo America	RES, 47 k, 5%, 0.1 W, 0603	0603
R91	1	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
R96, R101, R104, R106	4	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300, 5%, 0.1 W, 0603	0603
R98	1	243k	RC0603FR-07243KL	Yageo America	RES, 243 k, 1%, 0.1 W, 0603	0603
R99	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603

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R100, R105	2	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R107	1	2.26Meg	CRCW06032M26FKEA	Vishay-Dale	RES, 2.26 M, 1%, 0.1 W, 0603	0603
R108	1	160k	RC0603FR-07160KL	Yageo America	RES, 160 k, 1%, 0.1 W, 0603	0603
R114	1	470k	RC0603FR-07470KL	Yageo America	RES, 470 k, 1%, 0.1 W, 0603	0603
R115	1	5.10k	RG1608P-512-B-T5	Susumu Co Ltd	RES, 5.10 k, 0.1%, 0.1 W, 0603	0603
R116, R117	2	47.0k	RG1608P-473-B-T5	Susumu Co Ltd	RES, 47.0 k, 0.1%, 0.1 W, 0603	0603
R119	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R120, R124	2	68.0k	RC0603FR-0768KL	Yageo America	RES, 68.0 k, 1%, 0.1 W, 0603	0603
R121, R123	2	16.0k	RC0603FR-0716KL	Yageo America	RES, 16.0 k, 1%, 0.1 W, 0603	0603
R122	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R125	1	36k	CRCW040236K0JNED	Vishay-Dale	RES, 36 k, 5%, 0.063 W, 0402	0402
R126	1	6.81k	CRCW04026K81FKED	Vishay-Dale	RES, 6.81k ohm, 1%, 0.063W, 0402	0402
R130	1	69.8k	CRCW060369K8FKEA	Vishay-Dale	RES, 69.8 k, 1%, 0.1 W, 0603	0603
R134	1	4.7Meg	CRCW06034M70JNEA	Vishay-Dale	RES, 4.7 M, 5%, 0.1 W, 0603	0603
R136, R137, R138, R139, R141, R142	6	4.7k	CR0603-JW-472GLF	Bourns	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R146	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R147	1	100k	ERA-3AEB104V	Panasonic	RES, 100 k, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R151	1	49.9k	RC0603FR-0749K9L	Yageo America	RES, 49.9 k, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP5, TP6, TP9, TP10, TP11, TP12, TP21, TP25, TP26, TP28, TP29, TP33, TP34, TP35, TP36	18		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP2, TP7, TP8, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP22, TP23, TP24, TP27, TP37, TP38, TP43	18		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP30, TP31, TP32, TP39, TP40, TP41, TP42	7		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP44, TP45, TP46, TP47, TP48, TP49, TP50, TP51	8	STD	STD	STD	Test Point, 0.025"	
U1, U3	2		TVS3301DRBR	Texas Instruments	33 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A
U2	1		TVS2201DRBT	Texas Instruments	22 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A
U4, U26, U31, U34, U38, U39, U55	7		TVS0500DRVR	Texas Instruments	5-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U5	1		ISO1212DBQR	Texas Instruments	ISO1212DBQR, DBQ00016A, DBQ0016A (SSOP-16)	DBQ0016A

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U6, U9, U21, U23, U24	5		TVS1401DRBR	Texas Instruments	14 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A
U7	1		TPS65131RGET	Texas Instruments	Postive and Negative Output DC-DC Converter, 2.7 to 5.5 V, -40 to 85 degC, 24-pin QFN (RGE24), Green (RoHS & no Sb/Br)	RGE0024B
U8	1		TPS7A3901DSC	Texas Instruments	Wide-VIN (± 33 V), 150-mA, Spilt-Rail Output, Positive and Negative LDO Voltage Regulator with Startup Tracking, DSC0010J	DSC0010J
U10, U15, U16, U45	4		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U11, U20, U68	3		TVS2700DRVR	Texas Instruments	27-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U12	1		DRV8803PWPR	Texas Instruments	Quad Low-Side Driver IC, PWP0016D	PWP0016D
U13	1		LMZ14201TZ-ADJ/NOPB	Texas Instruments	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
U14	1		TLV70233DBVR	Texas Instruments	Single Output LDO, 300 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U17	1		TPD2E007DCKR	Texas Instruments	ESD Protection Array for AC Signal Data Interface, 2 Channels, -40 to +85 degC, 3-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0003A
U18	1		SN74LVC1G07DCKR	Texas Instruments	Single Buffer/Driver With Open-Drain Output, DCK0005A, LARGE T&R	DCK0005A
U19	1		TPS27S100APWPR	Texas Instruments	40 V, 80 mOhm Single-Channel High-Side Switch, PWP0014C (TSSOP-14)	PWP0014C
U22	1		OPA2171AIDR	Texas Instruments	Low Power, RRO, General Purpose Operational Amplifier in MicroPackage, 2.7 to 36 V, -40 to 125 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A
U25	1		TVS0701DRBR	Texas Instruments	7 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A
U32	1		REF5040IDGKT	Texas Instruments	Low Noise, Very Low Drift, Precision Series Voltage Reference, DGK0008A (VSSOP-8)	DGK0008A
U33	1		TLV9062IDR	Texas Instruments	Dual Operational Amplifier, D0008A (SOIC-8)	D0008A
U37	1		REF3020AIDBZT	Texas Instruments	2.048 V, 50 ppm / degC, 50 uA Series (Bandgap) Voltage Reference, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U40	1		TPS22810DBVR	Texas Instruments	2.7-18-V, 2-A, 79-m Ω On-Resistance Load Switch with Thermal Protection, DBV0006A (SOT-23-6)	DBV0006A
U41, U44	2		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U42	1		TLV70450DBVT	Texas Instruments	Single Output LDO, 150 mA, Fixed 5 V Output, 2.5 to 24 V Input, with Ultra Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U43	1		TPS70933DBVR	Texas Instruments	IC REG LINEAR 3.3V 150MA SOT23-5	DBV0005A
U46	1		LM8365BALMFX27/NOPB	Texas Instruments	Active Low Reset IC with Low Quiescent Current and Programmable Output Delay, DBV0005A (SOT-23-5)	DBV0005A
U47	1		SN74LVC1G08DBVR	Texas Instruments	Single 2-Input Positive-AND Gate, DBV0005A, LARGE T&R	DBV0005A
U49	1		ISOW7821DWER	Texas Instruments	High-Performance Dual-Channel Reinforced Digital Isolators with Integrated High-Efficiency, Low Emissions DC-DC Converter, DWE0016A (SOIC-16)	DWE0016A
U50	1		TPS22944DCKR	Texas Instruments	LOW-INPUT-VOLTAGE CURRENT-LIMITED LOAD SWITCHES WITH SHUT OFF AND AUTO-RESTART FEATURE, DCK0005A (SOT-5)	DCK0005A
U51	1		TPS3710DDCR	Texas Instruments	Wide VIN Voltage Detector, DDC0006A (SOT-23-T-6)	DDC0006A
U52	1		SN74LVC1G17DCKR	Texas Instruments	SINGLE SCHMITT-TRIGGER BUFFER, DCK0005A (SOT-SC70-5)	DCK0005A
U53	1		TPS2051BDR	Texas Instruments	Single, Current-Limited, Power-Distribution Switch, 1 A Current Limit, -40 to 85 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
U54	1		SN74LVC1G14DCKR	Texas Instruments	Single Schmitt-Trigger Inverter, DCK0005A, LARGE T&R	DCK0005A
U56	1		TPD4S012DRYR	Texas Instruments	USB ESD Solution with Power Clamp, 4 Channels, -40 to +85 degC, 6-pin SON (DRY), Green (RoHS & no Sb/Br)	DRY0006A
U57, U59	2		TVS1800DRVR	Texas Instruments	18-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U58	1		TPS61041DBVR	Texas Instruments	28 V, 250 mA Switch Boost Converter for LCD and White LED Applications, 1.8 to 6 V, -40 to 85 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
U60	1		TLV1117LV33DCYR	Texas Instruments	Single Output LDO, 1 A, Fixed 3.3 V Output, 2 to 5.5 V Input, 4-pin SOT-223 (DCY), -40 to 125 degC, Green (RoHS & no Sb/Br)	DCY0004A
U61	1		OPA2188AID	Texas Instruments	0.03 uV/degC, 6 uV Vos, Low Noise, Rail-to-Rail Output, Zero-Drift Operational Amplifier, 4 to 36 V, -40 to 105 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
U64	1		TPS3700DSE	Texas Instruments	High-Voltage (18V) Window Comparator with Over- and Undervoltage Detection, DSE0006A (WSON-6)	DSE0006A
U65	1		TPD1E10B06DPYR	Texas Instruments	TVS DIODE 5.5V 14V 2X1SON	DPY0002A
U66	1		LMZ21701SILR	Texas Instruments	3V to 17V, 1A High Density Nano Module, (USIP-8)	SIL0008E
U67	1		TLV3201AIDBVR	Texas Instruments	40ns, micro-Power, Rail-to-Rail Input, Single-Channel Comparator with Push-Pull Outputs, DBV0005A (SOT-23-5)	DBV0005A
U69	1		HDC1080DMBR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, DMB0006A	DMB0006A
U70	1		LMT84DCKR	Texas Instruments	1.5V-Capable, 10 uA Analog Output Temperature Sensor in SC70 and TO-92, DCK0005A (SOT-SC70-5)	DCK0005A
U71	1		DRV5032AJDBZR	Texas Instruments	Ultra-Low Power 1.65V to 5.5V Hall Effect Switch Sensor, DBZ0003A (SOT-23-3)	DBZ0003A
U72	1		TMP75BIDR	Texas Instruments	1.4V-Capable Temperature Sensor with I2C/SMBus Interface in LM75 Form Factor & Pinout, D0008A (SOIC-8)	D0008A
U73	1		TPS2553DRVR	Texas Instruments	Adjustable, Active High, Constant-Current, Current-Limited Power-Distribution Switch, 0.075 to 1.7 A Current Limit, -40 to 85 degC, 6-pin SON (DRV), Green (RoHS & no Sb/Br)	DRV0006A
U74	1		TPS3803-01DCKR	Texas Instruments	Single Voltage Detector, 1 Supply Monitored, -40 to 85 degC, 5-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0005A
U75	1		REF3440IDBVR	Texas Instruments	REF3440 - 6 PPM/C IQ 95UA 4V	DBV0006A
C17	0	0.1uF	C0603C104K5RECAUTO	Kemet	CAP, CERM, 0.1µF ±10% 50V Ceramic Capacitor X7R 0603	0603
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R9, R11	0	3.9k	RC0603JR-073K9L	Yageo America	RES, 3.9 k, 5%, 0.1 W, 0603	0603
R17	0	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R18	0	1.65k	CRCW12061K65FKEA	Vishay-Dale	RES, 1.65 k, 1%, 0.25 W, 1206	1206
R45	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R92, R133, R143, R144, R150, R154	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R93	0	47k	RC0603JR-0747KL	Yageo America	RES, 47 k, 5%, 0.1 W, 0603	0603
R127	0	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, 0805	0805
R140	0	4.7k	CR0603-JW-472GLF	Bourns	RES, 4.7 k, 5%, 0.1 W, 0603	0603