

N/A

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
!PCB1	1		Printed Circuit Board		TIDA-01495	Any
C1, C70	2	150uF	CAP, AL, 150 µF, 450 V, +/- 20%, TH	D18xL45mm	450BXW150MEFC18X45	Rubycon
C2, C3	2	0.033uF	CAP FILM 0.033UF 5% 1KVDC RADIAL	18x7mm	B32642B0333J	TDK
C4	1	0.47uF	CAP, Film, 0.47 µF, 450 V, +/- 5%, TH	18x6.5mm	450MPK474J	Rubycon
C5	1	1uF	CAP, Film, 1 µF, 450 V, +/- 5%, TH	18x9.5mm	450MPK105J	Rubycon
C6, C8, C11	3	2200pF	CAP, CERM, 2200 pF, 300 V, +/- 20%, Y5U, AEC-Q200 Grade 1, D9.5xT5mm	D9.5xT5mm	AY2222M35Y5US63L7	Vishay-Bccomponents
C7, C21, C38	3	0.1uF	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603	EMK107B7104KA-T	Taiyo Yuden
C9, C10, C51, C52	4	0.33uF	CAP, Film, 0.33 µF, X2 305 VAC, +/- 10%, TH	B32922_14.5mm	B32922C3334K	TDK
C12, C13, C14, C76, C77	5	330uF	CAP, AL, 330 µF, 35 V, +/- 20%, TH	D10xL20mm	35ZLH330MEFC10X12.5	Rubycon
C15, C69	2	470pF	CAP, CERM, 470 pF, 500 V, +/- 10%, X7R, 1210	1210	VJ1210Y471KXEAT5Z	Vishay-Vitramon
C16, C35	2	4.7uF	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X5R, 0603	0603	0603ZD475KAT2A	AVX
C17	1	0.01uF	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603	06031C103JAT2A	AVX
C18	1	100pF	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	C0603C101J5GAC	Kemet
C19	1	3.3pF	CAP, CERM, 3.3 pF, 50 V, +/- 8%, C0G/NP0, 0805	0805	08055A3R3CAT2A	AVX
C20	1	10pF	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	06035A100JAT2A	AVX
C22	1	6800pF	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603	GRM188R71H682KA01D	MuRata
C23, C36	2	2.2uF	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X5R, 0805	0805	0805YD225KAT2A	AVX
C24, C25	2	22pF	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	C0603C220J5GACTU	Kemet
C26	1	0.1uF	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805	C0805C104K1RACTU	Kemet
C27	1	10uF	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603	C1608X5R1A106M	TDK
C28	1	0.1uF	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603	0603YC104JAT2A	AVX
C29, C33	2	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603	C1608X7R1H102K	TDK
C30, C60, C61, C62	4	1uF	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603	GRM188R71E105KA12D	MuRata
C31	1	0.22uF	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X5R, 0603	0603	06033D224KAT2A	AVX
C32	1	0.1uF	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603	GRM188R72A104KA35J	MuRata
C34	1	820pF	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	06035A821JAT2A	AVX
C37	1	1uF	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603	UMK107AB7105KA-T	Taiyo Yuden
C39, C40	2	150pF	CAP, CERM, 150 pF, 1000 V, +/- 5%, U2J, 1206	1206	GRM31A7U3A151JW31D	MuRata
C41	1	1000pF	CAP, CERM, 1000 pF, 100 V, +/- 20%, X7R, 0603	0603	06031C102MAT2A	AVX
C42	1	0.047uF	CAP, CERM, 0.047 µF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C473KA01D	MuRata
C43	1	680pF	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0603	0603	GRM188R71H681KA01D	MuRata
C44, C45	2	330pF	CAP, CERM, 330 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603	GRM1885C2A331JA01D	MuRata
C46, C48	2	1uF	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0805	0805	C0805C105K3RACTU	Kemet
C47, C49	2	2200pF	CAP, CERM, 2200 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, Radial D8x5mm	Radial D8x5mm	DE2E3KY222MA2BM01	MuRata
C50	1	10pF	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	06035A100JAT2A	AVX
C53, C54	2	2.2uF	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X6S, 0603	0603	C1608X6S1C225K080AC	TDK
C55	1	0.01uF	CAP, CERM, 0.01 µF, 630 V, +/- 10%, X7R, 1808	1808	VJ1808Y103KBLAT4X	Vishay-Vitramon
C56, C57	2	22uF	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206	1206	C3216X5R1V226M160AC	TDK
C58, C59	2	100pF	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805	08055A101JAT2A	AVX
C66, C67, C68, C72, C73	5	4.7uF	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, 1210	1210	C3225X7S2A475K200AE	TDK
D1, D5	2	0.98V	Diode, Ultrafast, 600V, 8A, TH	TO-220AC	MUR860G	ON Semiconductor
D2, D6	2	0.35V	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323	BAT54HT1G	ON Semiconductor
D3	1	GBU8J	DIODE GPP 8A 600V GPP INLINE GBU	GBU	GBU8J	Vishay
D4, D9, D10, D19	4	1000V	Diode, P-N, 1000 V, 1 A, SMB	SMB	RS1MB-13-F	Diodes Inc.
D7, D8, D11	3	30V	Diode, Schottky, 30 V, 0.35 A, SOD-123	SOD-123	SD103BW-7-F	Diodes Inc.
D12	1	6.2V	Diode, Zener, 6.2 V, 300 mW, SOD-523	SOD-523	BZT52C6V2T-7	Diodes Inc.
D13, D15	2	600V	Diode, Ultrafast, 600 V, 1 A, SOD-123FL	SOD-123FL	UFM15PL-TP	Micro Commercial Component
D14	1	5.61V	Diode, Zener, 5.61 V, 500 mW, SOD-523	SOD-523	MM5Z5V6ST1G	ON Semiconductor
D16	1	15V	Diode, Zener, 15 V, 300 mW, SOD-323	SOD-323	BZX384-C15,115	NXP Semiconductor
D17	1	5.6V	Diode, Zener, 5.6 V, 150 mW, SOD-523F	SOD-523F	CZRU52C5V6	Comchip Technology
D18	1	600V	Diode, Ultrafast, 600 V, 1 A, SMA	SMA	US1J-13-F	Diodes Inc.
D20	1	5.1V	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323	BZT52C5V1S-7-F	Diodes Inc.
FCL1	1		FUSE CLIP, CARTRIDGE, 250V, 10A, PCB		01110501Z	LITTELFUSE
H1, H2, H3, H4, H5, H6	6		Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon	SJ-5303 (CLEAR)	3M
HS1, HS3	2		HEATSINK VERT MAX CLIP, BLACK, 4.25 INCHES	4.25 INCH EXTRUDED HEAT SINK	782653B04250G	Aavid
HS2	1		Heat Sink, Vertical	Heatsink		Advanced Thermal Solutions
J2	1		Terminal Block, 30A, 9.52mm (.375) Pitch, 2-Pos, TH	19.62x21.5x12.5mm	OSTT7022150	On-Shore Technology
J3	1		Header(Shrouded), 6.35mm, 3x1, Tin, TH	Header(Shrouded), 6.35mm, 3x1, TH	350429-1	TE Connectivity
L1, L6	2	150 µH	Transformer, 160 uH, TH	43x38mm	Custom	

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
L2	1	150uH	Inductor, Toroid, Powdered Iron, 150 µH, 5A, TH		7447076	Würth Elektronik
L3, L5	2	3.3mH	Coupled inductor, 3.3 mH, 5 A, 0.037 ohm, TH	32.5x22x28mm	744834433	Würth Elektronik
L4	1	230nH	Inductor, Ferrite, 230 nH, 56 A, 0.0005 ohm, TH	11 x 9.2 x 9mm	THCBR1290-231IN	Delta Electronics Inc.
L7	1		Inductor, Ferrite, 330 µH, 6.1 A, 0.074 ohm, TH			
L8	1	1mH	FIXED IND 2.2MH 210MA 11 OHM TH	D6 x 8.5mm	744741222	Würth Elektronik
Q1, Q12	2	650V	MOSFET, N-CH, 650 V, 20.2 A, TO-220AB	TO-220AB	IPP60R190P6	Infineon Technologies
Q2, Q3	2	650V	MOSFET, N-CH, 650 V, 20.2 A, TO-220AB	TO-220AB	STP24N60M2	STMicroelectronics
Q4	1	30 V	Transistor, NPN, 30 V, 0.1 A, SOT-23	SOT-23	BC848CLT1G	ON Semiconductor
Q5, Q7	2	100V	MOSFET, N-CH, 100 V, 150 A, KCS0003B (TO-220-3)	KCS0003B	CSD19536KCS	Texas Instruments
Q6	1	30 V	Transistor, NPN, 30 V, 0.6 A, SOT-23	SOT-23	MMBT2222LT1G	ON Semiconductor
Q10	1	650V	MOSFET N CH 650V 35A D2PAK	DDPAK	STB45N65M5	ST Microelectronics
Q13, Q14	2	30 V	Transistor, PNP, 30 V, 0.1 A, SOT-23	SOT-23	BC858C-7-F	Diodes Inc.
R1, R2, R13, R72	4	10k	RES, 10 k, 0.01%, 0.063 W, 0603	0603	RNCF0603TKY10K0	Stackpole Electronics Inc
R3	1	162	RES, 162, 1%, 0.125 W, 0805	0805	CRCW0805162RFKEA	Vishay-Dale
R4, R5, R18	3	18.2	RES, 18.2, 1%, 0.125 W, 0805	0805	CRCW080518R2FKEA	Vishay-Dale
R6, R19, R74	3	10.0k	RES, 10.0 k, 1%, 0.125 W, 0805	0805	CRCW080510K0FKEA	Vishay-Dale
R7, R8	2	0.03	RES, 0.03, 1%, 2 W, 2512	2512	CSRN2512FK30L0	Stackpole Electronics Inc
R9	1	70.6k	RES, 70.6 k, 0.5%, 0.1 W, 0603	0603	RT0603DRE0770K6L	Yageo America
R10, R22, R31	3	1.00k	RES, 1.00 k, 1%, 0.25 W, 1206	1206	CRCW12061K00FKEA	Vishay-Dale
R11, R77	2	511k	RES, 511k ohm, 1%, 0.25W, 1206	1206	CRCW1206511KFKEA	Vishay-Dale
R12, R49, R66	3	10.0k	RES, 10.0 k, 1%, 0.1 W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale
R14, R76	2	49.9k	RES, 49.9k ohm, 1%, 0.25W, 1206	1206	CRCW120649K9FKEA	Vishay-Dale
R15, R16	2	2.2	RES, 2.2, 5%, 0.125 W, 0805	0805	CRCW08052R20JNEA	Vishay-Dale
R17, R47, R71, R73	4	6.04k	RES, 6.04 k, 1%, 0.1 W, 0603	0603	CRCW06036K04FKEA	Vishay-Dale
R20	1	3.01Meg	RES, 3.01 M, 1%, 0.125 W, 0805	0805	CRCW08053M01FKEA	Vishay-Dale
R21, R23, R33	3	2.87Meg	RES, 2.87 M, 1%, 0.125 W, 0805	0805	CRCW08052M87FKEA	Vishay-Dale
R24, R26	2	16.5k	RES, 16.5 k, 1%, 0.1 W, 0603	0603	CRCW060316K5FKEA	Vishay-Dale
R25	1	750k	RES, 750 k, 1%, 0.1 W, 0603	0603	CRCW0603750KFKEA	Vishay-Dale
R27, R34, R46, R86, R87	5	2.74Meg	RES, 2.74 M, 1%, 0.125 W, 0805	0805	CRCW08052M74FKEA	Vishay-Dale
R28	1	2.2k	RES, 2.2 k, 5%, 0.1 W, 0603	0603	CRCW06032K20JNEA	Vishay-Dale
R29, R36, R69	3	330k	RES, 330 k, 5%, 0.25 W, 1206	1206	CRCW1206330KJNEA	Vishay-Dale
R30	1	100	RES, 100, 1%, 0.1 W, 0603	0603	CRCW0603100RFKEA	Vishay-Dale
R32, R70	2	487k	RES, 487 k, 1%, 0.1 W, 0603	0603	CRCW0603487KFKEA	Vishay-Dale
R35, R88	2	133k	RES, 133 k, 1%, 0.1 W, 0603	0603	CRCW0603133KFKEA	Vishay-Dale
R37, R39, R41, R51, R62	5	100k	RES, 100 k, 5%, 0.1 W, 0603	0603	CRCW0603100KJNEA	Vishay-Dale
R38, R40	2	22	RES, 22, 5%, 0.1 W, 0603	0603	CRCW060322R0JNEA	Vishay-Dale
R42	1	7.50k	RES, 7.50 k, 1%, 0.1 W, 0603	0603	CRCW06037K50FKEA	Vishay-Dale
R43	1	374k	RES, 374 k, 1%, 0.25 W, 1206	1206	CRCW1206374KFKEA	Vishay-Dale
R44, R45	2	4.7k	RES, 4.7 k, 5%, 0.1 W, 0603	0603	CR0603-JW-472GLF	Bourns
R48	1	147k	RES, 147 k, 1%, 0.1 W, 0603	0603	CRCW0603147KFKEA	Vishay-Dale
R50	1	16.9k	RES, 16.9 k, 1%, 0.1 W, 0603	0603	CRCW060316K9FKEA	Vishay-Dale
R52, R53	2	10	RES, 10, 5%, 0.125 W, 0805	0805	CRCW080510R0JNEA	Vishay-Dale
R54, R57	2	4.70k	RES, 4.70 k, 1%, 0.25 W, 1206	1206	RC1206FR-074K7L	Yageo America
R55	1	12k	RES, 12 k, 5%, 0.1 W, 0603	0603	CRCW060312K0JNEA	Vishay-Dale
R56	1	47.0k	RES, 47.0 k, 0.1%, 0.1 W, 0603	0603	RT0603BRD0747KL	Yageo America
R58, R59	2	10.0	RES, 10.0, 1%, 0.25 W, 0603	0603	CRCW060310R0FKEA	Vishay-Dale
R60, R61	2	4.7	RES, 4.7, 5%, 0.125 W, 0805	0805	CRCW08054R70JNEA	Vishay-Dale
R63, R64	2	10.0	RES, 10.0, 1%, 0.1 W, 0603	0603	RC0603FR-0710RL	Yageo
R65	1	0.001	RES, 0.001, 1%, 1 W, 2512	2512	ERJ-M1WTF1M0U	Panasonic
R67, R68	2	1.00Meg	RES, 1.00 M, 1%, 0.125 W, 0603	0603	MCT06030C1004FP500	Vishay/Beyschlag
R75	1	1.10Meg	RES, 1.10 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603	CRCW06031M10FKEA	Vishay-Dale
R89	1	66.5k	RES, 66.5 k, 1%, 0.1 W, 0603	0603	CRCW060366K5FKEA	Vishay-Dale
R90	1	82.5k	RES, 82.5 k, 1%, 0.1 W, 0603	0603	CRCW060382K5FKEA	Vishay-Dale
RT1	1	10 ohm	Thermistor NTC, 10 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm	B57236S0100M000	EPCOS Inc
RV1	1		Varistor 275V RMS 10MM Radial, TH	10mm Radial	S10K275E2	EPCOS Inc
T1	1		Transformer, TH	51x33mm	58599	Payton
TP1, TP3, TP6	3	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone
TP2, TP5	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
U1	1		Dual 5-A High-Speed Low-Side Gate Driver, D0008A	D0008A	UCC27524AD	Texas Instruments
U2	1		Enhanced LLC Resonant Controller with Driver, DDB0014A (SOIC-14)	DDB0014A	UCC25630DDB	Texas Instruments
U3	1		Natural Interleaving™ Transition-Mode PFC Controller with Improved Audible Noise Immunity, D0016A	D0016A	UCC28063DR	Texas Instruments
U4	1		700-V Lowest Quiescent Current Off-Line Switcher, D0007A	D0007A	UCC28880DR	Texas Instruments
U5	1		Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A	TL431ACDBZR	Texas Instruments
U6, U12	2		Optocoupler, 5.3 kV, 50-600% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm	VO618A	Vishay-Semiconductor
U7, U8	2		UCC24612-1DBV, DBV0005A (SOT-23-5)	DBV0005A	UCC24612-1DBVR	Texas Instruments

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
U9	1		Bidirectional, Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0006A (SOT-6)	DBV0006A	INA181A3IDBV	Texas Instruments
U10	1		3 Pin 100mA Fixed 5V Positive Voltage Regulator, PK0003A (SOT-3)	PK0003A	UA78L05CPK	Texas Instruments
U11	1		SINGLE DIFFERENTIAL COMPARATOR, DBV0005A (SOT-23-5)	DBV0005A	TL331IDBVR	Texas Instruments
U13	1		36V, Low-Power, RRO, General-Purpose Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A	TLV171IDBVR	Texas Instruments
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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