

Variant: Isolated\_Trans  
Generated: 12/23/2022 1:39 PM  
TID #: TIDA-010236



## TIDA-010236 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C12, C13	3	10uF	C3216X7R1V106M160AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 20%, X7R, 1206_190	1206_190
2	C2	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
3	C3, C8, C9, C10, C20, C22, C36	7	0.1uF	06035C104JAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	0603
4	C4, C5	2	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 1206	1206
5	C6, C19, C23	3	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
6	C7	1	3.3uF	CGA4J1X7R1V335K125AC	TDK	CAP, CERM, 3.3 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
7	C11	1	75pF	GRM1885C1H750JA01D	MuRata	CAP, CERM, 75 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C14, C15	2	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
9	C16	1	330pF	C0603C331K5RACTU	Kemet	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C17	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
11	C24, C25	2	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
12	C26	1	68pF	GCM1885C1H680JA16D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
13	C28, C29, C30, C31	4	0.022uF	C1206C223KDRACTU	Kemet	CAP, CERM, 0.022 uF, 1000 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
14	C32, C33, C34, C35	4	0.1uF	C1812W104KDRACTU	Kemet	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 1812	1812
15	D1	1		SS1H20LS RVG	Taiwan Semiconductor	Rectifier Diode Schottky 200V 1A 2-Pin SOD-123HE T/R	SOD123HE
16	D4, D5	2	18V	BZT52C18-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, AEC-Q101, SOD-123	SOD-123
17	J2	1		TSM-107-03-L-SV	Samtec		HDR7
18	L1, L2	2	4.7uH	1269AS-H-4R7M=P2	MuRata Toko	Inductor, Shielded, Metal Composite, 4.7 uH, 1.2 A, 0.25 ohm, SMD	2.5x1x2mm
19	MP1, MP4, MP7	3		74660036	Würth Electronics	1 Pin Screw Terminal, Power Tap M3, 6mm, Surface Mount	SMT_BUSH
20	MP3, MP6, MP8, MP9	4		9774010960	Würth Electronics		SPACER_ROUND
21	R1, R2, R12, R13	4	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
22	R3, R17	2	51	RC0603FR-0751RL	Yageo	RES, 51.0, 1%, 0.1 W, 0603	0603
23	R4	1	100	RC0603FR-07100RL	Yageo	RES, 100, 1%, 0.1 W, 0603	0603
24	R5	1	511k	RC0603FR-07511KL	Yageo	RES, 511 k, 1%, 0.1 W, 0603	0603
25	R6, R7	2	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
26	R8	1	22.1k	RC0603FR-0722K1L	Yageo	RES, 22.1 k, 1%, 0.1 W, 0603	0603
27	R9, R10, R20	3	300	RC0603FR-07300RL	Yageo	RES, 300, 1%, 0.1 W, 0603	0603
28	R11, R21	2	2.00k	RC0603FR-072KL	Yageo	RES, 2.00 k, 1%, 0.1 W, 0603	0603
29	R14, R15	2	20.0k	RC0603FR-0720KL	Yageo	RES, 20.0 k, 1%, 0.1 W, 0603	0603
30	R16, R19	2	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
31	T1	1		750344971	Würth Electronics	Transformer, 1:5, 1500VAC, 10uH, 14x10x5mm	SMT_XFRMR_14MM 0_10MM0
32	U1	1		TPS54308DDCR	Texas Instruments	4.5-V to 28-V Input, 3-A Output Synchronous Step-Down Converter, DDC0006A (SOT-6)	DDC0006A
33	U2	1		ISO7721FDR	Texas Instruments	Low Speed, General Purpose, Robust EMC, Dual-Channel Digital Isolators	SOIC8
34	U3, U4	2		LMG3522R030-Q1	Texas Instruments	650-V 30-mΩ GaN FET with Integrated Driver, Protection, and Temperature Reporting	VQFN52
35	U6	1		SN74AHC1G08DBVR	Texas Instruments	Single 2-Input Positive-AND Gate, DBV0005A	DBV0005A
36	D2	0	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
37	R18	0	10	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206