

Variant: 001
Generated: 11/29/2022 8:36 AM
TID #: TIDA-01606



TIDA-01606_HV_Card REV E4 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01606_HV_Card	Any	Printed Circuit Board	
2	C1	1	10uF	TAJA106M010RNJ	AVX	CAP, TA, 10 uF, 10 V, +/- 20%, 3 ohm, SMD	3216-18
3	C2, C4, C5, C6, C8, C9, C11	7	0.1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
4	C3, C7, C10, C13	4	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210	1210
5	C12, C16	2	4.7uF	GRM21BR61H475KE51L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805	805
6	C14, C19, C20, C22	4	0.01uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603	603
7	C15, C17, C18, C21	4	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
8	D1, D2	2	20V	B0520LW-7-F	Diodes Inc.	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
9	D3	1	Green	150060VS55040	Würth Elektronik	LED, Green, SMD	1.6x0.8mm
10	D4	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
11	D5	1	3.3V	CDSOD323-T03SC	Bourns	Diode, TVS, Bi, 3.3 V, 10.9 Vc, SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark	SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark
12	DC-1, DC+1	2		PBC02SGBN	Sullins Connector Solutions	Header, 2.54 mm, 2x1, Gold, R/A, TH	Header, 2.54mm, 2x1, R/A, TH
13	J1	1		61300411021	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, R/A, TH	Header, 2.54 mm, 4x1, R/A, TH
14	L1	1	1000 ohm	742792662	Würth Elektronik	Ferrite Bead, 1000 ohm @ 100 MHz, 0.6 A, 0603	603
15	L2	1	26 ohm	74279228260	Würth Elektronik	Ferrite Bead, 26 ohm @ 100 MHz, 6.5 A, 0603	603
16	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 x 0.200 inch
17	R1, R2, R4, R7, R9, R17, R26	7	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
18	R3	1	47k	RC0603JR-0747KL	Yageo	RES, 47 k, 5%, 0.1 W, 0603	603
19	R5	1	2.20k	RC0603FR-072K2L	Yageo	RES, 2.20 k, 1%, 0.1 W, 0603	603
20	R6	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
21	R10	1	330	RC0603JR-07330RL	Yageo	RES, 330, 5%, 0.1 W, 0603	603
22	R11, R12, R13, R14, R15, R16	6	332k	MMU01020C3323FB300	Vishay-Semiconductor	RES, 332 k, 1%, 0.2 W, AEC-Q200 Grade 0, 2.2x1.1mm	2.2x1.1mm
23	R18, R29	2	15.0k	RC0603FR-0715KL	Yageo	RES, 15.0 k, 1%, 0.1 W, 0603	603
24	R19, R27	2	39	CRCW060339R0JNEA	Vishay-Dale	RES, 39, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
25	R20, R21, R24, R25	4	4.70k	RC0603FR-074K7L	Yageo	RES, 4.70 k, 1%, 0.1 W, 0603	603
26	R22	1	3.60k	MMU01020C3601FB300	Vishay-Semiconductor	RES, 3.60 k, 1%, 0.3 W, AEC-Q200 Grade 0, 2.2x1.1mm	2.2x1.1mm
27	R23	1	100	ERJ-3EKF1000V	Panasonic	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
28	T1	1	340uH	750313638	Würth Elektronik	Transformer, 340 uH, SMT	8x9.14mm
29	U1	1		TPS22944DCKR	Texas Instruments	Low-Input Voltage 100 mA Current Limited Load Switch, 400 mOhms rDS(On), -40 to 85 degC, 5-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0005A
30	U2	1		SN6505BDBVR	Texas Instruments	Low-Noise 1 A, 420 kHz Transformer Driver, DBV0006A (SOT-23-6)	DBV0006A
31	U3	1		TLV70433DBVT	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 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
32	U4	1		AMC1311DWVR	Texas Instruments	Precision, 2-V Input, Reinforced Isolated Amplifier, DWV0008A (SOIC-8)	DWV0008A
33	U5	1		PTLV9061IDCKR	Texas Instruments	World's Smallest Amp 10MHz, RRIO, 1.8V-5.5V op-amp delivers high performance for challenging systems, DCK0005A (SOT-SC70-5)	DCK0005A
34	C23	0	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
35	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
36	R8	0	47k	RC0603JR-0747KL	Yageo	RES, 47 k, 5%, 0.1 W, 0603	603
37	R28	0	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603