



TIDA-00998_CT_EHS REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference	Fitted
1	IPC6	1		TIDA-00998_CT_EHS	Any	Printed Circuit Board		Fitted
2	C1	1	10F	HV1030-2R7106-R	Rubycon	CAP 10F -10% +30% 2.7V T/H	Cap, 10x23mm	Fitted
3	C2	1	1000µF	ESH108M6R3AH1AA	Panasonic	CAP ALUM 1000UF 20% 6.3V RADIAL	10x20mm	Fitted
4	C4, C8	2	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603	Fitted
5	C5	1	1uF	GRM185R60J105KE26D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X5R, 0603	0603	Fitted
6	C6, C7	2	22uF	GRM188R60J226MEA0D	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603	0603	Fitted
7	C10	1	0.22uF	GRM188R61A224KA01D	MuRata	CAP, CERM, 0.22 µF, 10 V, +/- 10%, X5R, 0603	0603	Fitted
8	D1, D2, D3, D4, D6, D7	6	20V	SL22-E3/52T	Vishay-Semiconductor	Diode, Schottky, 20 V, 2 A, SMB	SMB	Fitted
9	D5, D8	2	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123	Fitted
10	D9	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323	Fitted
11	J1, J2, J3, J4, J5, J6, J7, J8	8		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header	Fitted
12	L1	1	4.7uH	74479887247	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 4.7 µH, 0.75 A, 0.53 ohm, SMD	2.5x1x2mm	Fitted
13	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	Fitted
14	Q1, Q3	2	-20V	CSD25310Q2	Texas Instruments	MOSFET, P-CH, -20 V, -20 A, DQK0006C (WSON-6)	DQK0006C	Fitted
15	Q2	1	12V	CSD13202Q2	Texas Instruments	MOSFET, N-CH, 12 V, 22 A, DQK0006C (WSON-6)	DQK0006C	Fitted
16	Q4	1	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23	Fitted
17	R1, R5	2	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603	Fitted
18	R2	1	511k	RC0603FR-07511KL	Yageo America	RES, 511 k, 1%, 0.1 W, 0603	0603	Fitted
19	R3	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603	Fitted
20	R4	1	76.8k	CRCW060376K8FKEA	Vishay-Dale	RES, 76.8 k, 1%, 0.1 W, 0603	0603	Fitted
21	R6, R8, R13, R14	4	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603	Fitted
22	R7, R9, R12	3	2.00Meg	CRCW06032M00FKEA	Vishay-Dale	RES, 2.00 M, 1%, 0.1 W, 0603	0603	Fitted
23	R10	1	69.8k	RC0603FR-0769K8L	Yageo America	RES, 69.8 k, 1%, 0.1 W, 0603	0603	Fitted
24	R11	1	287k	CRCW0603287KFKEA	Vishay-Dale	RES, 287 k, 1%, 0.1 W, 0603	0603	Fitted
25	R15	1	7.50Meg	CRCW06037M50FKEA	Vishay-Dale	RES, 7.50 M, 1%, 0.1 W, 0603	0603	Fitted
26	R16	1	5.90Meg	CRCW06035M90FKEA	Vishay-Dale	RES, 5.90 M, 1%, 0.1 W, 0603	0603	Fitted
27	U1	1		TLV3492AIDR	Texas Instruments	1.8V, Nanopower, PUSH-PULL OUTPUT COMPARATOR, D0008A (SOIC-8)	D0008A	Fitted
28	U2	1		TPS61021ADSGR	Texas Instruments	3-A BOOST CONVERTER WITH 0.5V ULTRA-LOW INPUT VOLTAGE, DSG0008A (WSON-8)	DSG0008A	Fitted
29	U3	1		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOP-3)	DBZ0003A	Fitted
30	C3	0	100uF	ECA-2AHG101	Panasonic	CAP, AL, 100 µF, 100 V, +/- 20%, TH	10x20mm	Not Fitted
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial	Not Fitted

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