

Item	Designator	Description	Manufacturer	PartNumber	Quantity
1	!PCB	Printed Circuit Board	Any	TIDA01504	1
2	C1	CAP, CERM, 4700 pF, 100 V, +/- 5%, C0G/NP0, 0603	Kemet	C0603C472J1GAC7867	1
3	C2, C17	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	MuRata	GRM188R61E105KA12D	2
4	C3, C23	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	MuRata	GRM188R61E106MA73D	2
5	C4	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H223KA01D	1
6	C5, C6, C10	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	MuRata	GRM188R71E104KA01D	3
7	C7	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H222JA01D	1
8	C8	CAP, CERM, 680 pF, 50 V, +/- 5%, C0G/NP0, 0603	Kemet	C0603C681J5GACTU	1
9	C9	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	MuRata	GCM188R71E105KA64D	1
10	C11, C12, C16, C18	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0603	AVX	06033D104KAT2A	4
11	C13	CAP, CERM, 0.012 µF, 25 V, +/- 10%, X7R, 0603	MuRata	GRM188R71E123KA01D	1
12	C14	CAP, CERM, 300 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H301JA01D	1
13	C15	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H102JA01D	1
14	C19	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X5R, 0603	TDK	C1608X5R1V475K080AC	1
15	C20	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	MuRata	GRM188R71E102KA01D	1
16	C21	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	MuRata	GRM21BR71H105KA12L	1
17	C22	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0603	Würth Elektronik	885012206040	1
18	C24, C25	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0402	MuRata	GRM155R71C104JA88D	2
19	C26, C27	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0402	MuRata	GRM155R61E105KA12D	2
20	C28, C29	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	Würth Elektronik	885012005055	2
21	D1	TVS DIODE 36VWM 60VC SOD323	Bourns Inc	CDSOD323-T36SC	1
22	D2	Diode, Switching-Bridge, 1000V, 1A, 5.0x1.21x6.2mm	Diodes Inc.	DSRHD10-13	1
23	FB1, FB2	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	Taiyo Yuden	FBMH3225HM601NT	2
24	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
25	H9, H10, H11, H12	Bumpon, Hemisphere, 0.44 X 0.20, Clear	3M	SJ-5303 (CLEAR)	4
26	J1	Terminal Block, 3.5mm Pitch, 2x1, TH	On-Shore Technology	ED555/2DS	1
27	J2	Header, 2mm, 3x1, Tin, TH	Samtec	TMM-103-01-T-S	1
28	J3	Header, 100mil, 6x1, Gold, TH	Samtec	TSW-106-07-G-S	1
29	Q1	Transistor, NPN, 45 V, 1 A, SOT-89	Diodes Inc.	FCX690BTA	1
30	R1, R19	RES, 1.00 M, 1%, 0.1 W, 0603	Yageo America	RC0603FR-071ML	2
31	R2	RES, 100 k, 0.05%, 0.1 W, AEC-Q200 Grade 0, 0603	Panasonic	ERA-3ARW104V	1
32	R3	RES, 2.4 k, 0.05%, 0.1 W, AEC-Q200 Grade 0, 0603	Susumu Co Ltd	RG1608N-242-W-T1	1
33	R4	RES, 49.9 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-4992-B-T5	1
34	R5	RES, 11.3 k, 0.05%, 0.1 W, AEC-Q200 Grade 0, 0603	Susumu Co Ltd	RG1608N-1132-W-T1	1
35	R6	RES, 14.3 k, 0.05%, 0.1 W, AEC-Q200 Grade 0, 0603	Susumu Co Ltd	RG1608N-1432-W-T1	1
36	R7	RES, 10.0, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD0710RL	1

37	R8	RES, 60.4, 1%, 0.25 W, 1206	Vishay-Dale	CRCW120660R4FKEA	1
38	R9	RES SMD 1.8KOHM 0.05% 1/10W 0603	Panasonic Electronic Components	ERA-3ARW182V	1
39	R10, R12	RES, 10.0, 0.05%, 0.1 W, 0603	Stackpole Electronics Inc	RNCF0603AKT10R0	2
40	R11	RES SMD 180 OHM 0.05% 1/10W 0603	Susumu	RG1608N-181-W-T1	1
41	R13	RES, 200, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD07200RL	1
42	R14	RES, 107 k, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD07107KL	1
43	R15	RES, 32.8 k, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD0732K8L	1
44	R16, R17	RES, 47 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040247K0JNED	2
45	R18	RES, 0, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04020000Z0ED	1
46	S1, S2	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	E-Switch	TL1015AF160QG	2
47	TP1, TP2, TP3, TP4, TP5, TP6	Test Point, Miniature, SMT	Keystone	5019	6
48	U1	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-5)	Texas Instruments	TPS7B6933QDBVRQ1	1
49	U2	HART & FOUNDATION Fieldbus / PROFIBUS PA Modem, RGE0024F	Texas Instruments	DAC8740HRGE	1
50	U3	0.05 uV/C Max, Single-Supply CMOS Operational Amplifier, 2.7 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	Texas Instruments	OPA335AIDR	1
51	U4	16-Bit, Ultra-Low Power, Voltage-Output Digital-to-Analog Converter, D0008A	Texas Instruments	DAC8830IBDR	1
52	U5	Precision Low Dropout Voltage Reference, 5-pin SOT-23	Texas Instruments	LM4132AMF-4.1	1
53	U6	17 uA, MicroPower, Precision, Zero Drift CMOS Operational Amplifier, 1.8 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	Texas Instruments	OPA333AID	1
54	U7	Single Output LDO, 50 mA, Adjustable 1.175 to 48 V Output, 7 to 50 V Input, 8-pin MSOP (DGN), -40 to 125 degC, Green (RoHS & no Sb/Br)	Texas Instruments	TPS7A4101DGNR	1
55	U8	Mixed Signal Microcontroller, RGZ0048B	Texas Instruments	MSP430FR5969IRGZR	1
56	Y1	CRYSTAL, 32.768KHZ, 12.5PF, SMD	Abracon Corporation	ABS07-32.768KHZ-T	1

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