

Qty	Parts	Description	Size	Mfr	Mfr Part #	Dist	Dist Part 3	Notes
2	BR1, BR2	BRIDGE RECT 1P 100V 1.5A SMD 4SDIP	---	On Semiconductor	DF01S	Digi-Key	DF01SCT-ND	
4	C1, C2, C3, C4	CAP CER 0.022uF 500V 10% X7R SMD 1206	1206	Johanson Dielectrics	501R18W223KV4E	Digi-Key	709-1028-1-ND	
2	C5, C6	CAP CER 1000pF 2KV 10% X7R SMD 1206	1206	Johanson Dielectrics	202R18W102KV4E	Digi-Key	709-1036-1-ND	
1	C7	CAP CER 1000PF 100V 10% X7R SMD 0805	0805	Kemet	C0805C102K1RACTU	Digi-Key	399-1148-1-ND	
1	C8	CAP CER 0.1uF 100V 10% X7R SMD 0805	0805	Yageo	CC0805KKX7R0BB104	Digi-Key	311-2083-1-ND	
1	C9	CAP ALUM 100uF 20% 100V RADIAL	E5-10,5	Panasonic	ECA-2AHG101	Digi-Key	P5597-ND	
1	C10	CAP ALUM 100uF 20% 16V RADIAL	E2,5-7	Panasonic	EEA-GA1C101H	Digi-Key	P15797CT-ND	
1	C11	CAP CER 10uF 50V 10% X7R SMD 1210	1210	Kemet	C1210C106K5RACTU	Digi-Key	399-11629-1-ND	
7	C12, C14, C16, C18, C20, C31, C32	CAP CER 0.1u 50V 10% X7R SMD 0805	0805	Kemet	C0805C104K5RACTU	Digi-Key	399-1170-1-ND	
1	C13	CAP CER 22uF 10V 10% X7R SMD 1206	1206	Kemet	C1206C226K8RAC7800	Digi-Key	399-11947-1-ND	
7	C15, C27, C28, C29, C30, C33, C34	CAP CER 0.1uF 50V 20% X7R SMD 0603	0603	TDK	C1608X7R1H104M	Digi-Key	445-5098-1-ND	
4	C17, C19, C21, C23	CAP CER 1000pF 50V 20% X7R SMD 0805	0805	Kemet	C0805C102M5RACTU	Digi-Key	399-1146-1-ND	
1	C22	CAP CER 4.7uF 10V 10% X5R SMD 0805	0805	Kemet	C0805C475K8PACTU	Digi-Key	399-3133-1-ND	
2	C24, C25	CAP CER 51pF 50V 5% NPO SMD 0805	0805	Yageo	CC0805JRNPO9BN510	Digi-Key	311-4239-1-ND	
1	C26	CAP CER 10uF 16V 20% X7R SMD 1206	1206	TDK	CGA5L1X7R1C106M160AC	Digi-Key	445-12903-1-ND	
1	D1	TVS DIODE 58V 121V SMA	---	ST Microelectronics	SMAJ58A-TR	Digi-Key	497-3508-1-ND	
9	D2, D3, D4, D7, D8, D10, D11, D12, D13	LED RED CLEAR CHIP SMD 0805	0805	Kingbright	APHCM2012SURCK-F01	Digi-Key	754-1097-1-ND	
2	D5, D6	TVS DIODE 3.3V 7V SOT143	---	Bourns	CD143A-SR3.3	Digi-Key	CD143A-SR3.3CT-ND	
1	D9	TVS DIODE 5.5V SOT23	---	Diodes Inc	DRT5V0U1SO-7	Digi-Key	DRT5V0U1SO-7DICT-ND	
1	J1	CONN MOD JACK 8P8C R/A SHIELDED	---	TE Connectivity	5558342-1	Digi-Key	A31466-ND	
1	J2	TERM BLOCK HDR 3POS 90DEG 3.81MM	---	Phoenix	1803280	Digi-Key	277-1207-ND	
1	J3	TAG CONNECT ICSP PCB PADS	---	---	---	---	---	
1	J4	CONN HEADER VERT 3POS 2.54MM	---	Samtec	TSW-103-07-G-S	Digi-Key	SAM1029-03-ND	
2	L1, L2	FERRITE BEAD 500 OHM 1206 1LN	M3216	Laird	MI1206L501R-10	Digi-Key	240-2407-1-ND	
3	L3, L4, L5	FERRITE BEAD 120 OHM 0603 1LN	M1608	TDK	MMZ1608B121CTAH0	Digi-Key	445-2164-1-ND	
1	OSC1	MEMS OSC PROG XO LVCOS 3.3V	---	Si Time	SIT2024BETS-33N	Digi-Key	SIT2024BETS-33N-ND	25.0000 MHz
1	PS1	DC-DC ISOLATED, 20 W, 18-75 VDC	---	Cui	PDQE20-Q48-S5-D	Digi-Key	102-6272-ND	
1	PS2	DC DC CONVERTER 3.3V 1.65W	---	Cui	V7803-500	Digi-Key	102-1708-ND	
4	R1, R2, R3, R4	RES SMD 75 OHM 5% 2/3W 1206	1206	Panasonic	ERJ-P08J750V	Digi-Key	P75ALCT-ND	
1	R10	RES SMD 63.4 OHM 1% 1/8W 0805	0805	Panasonic	ERJ-6ENF63R4V	Digi-Key	P63.4CCT-ND	
2	R11, R12	DNP	1206	---	---	---	---	
4	R13, R14, R15, R16	RES SMD 27K OHM 5% 1/4W 1206	1206	Panasonic	ERJ-8GEYJ273V	Digi-Key	P27KECT-ND	
2	R17, R28	RES SMD 10K OHM 5% 1/8W 0805	0805	Panasonic	ERJ-6GEYJ103V	Digi-Key	P10KACT-ND	
6	R18, R19, R22, R23, R26, R27	RES SMD 1K OHM 5% 1/8W 0805	0805	Panasonic	ERJ-6GEYJ102V	Digi-Key	P1.0KACT-ND	
2	R20, R21	RES SMD 100K OHM 5% 1/8W 0805	0805	Panasonic	ERJ-6GEYJ104V	Digi-Key	P100KACT-ND	
3	R24, R25, R29	RES SMD 100 OHM 5% 1/8W 0805	0805	Panasonic	ERJ-6GEYJ101V	Digi-Key	P100ACT-ND	
1	R30	RES SMD 2.26K OHM 1% 1/8W 0805	0805	Panasonic	ERJ-6ENF2261V	Digi-Key	P2.26KCCT-ND	
4	R31, R32, R33, R34	RES SMD 49.9 OHM 1% 1/8W 0805	0805	Panasonic	ERJ-6ENF49R9V	Digi-Key	P49.9CCT-ND	
4	R5, R6, R7, R8	---	0805	Panasonic	ERJ-6RQF1R0V	Digi-Key	P1.0DCT-ND	
1	R9	RES SMD 24.9K OHM 1% 1/8W 0805	0805	Panasonic	ERJ-6ENF2492V	Digi-Key	P24.9KCCT-ND	
2	SW1, SW2	SWITCH TACTILE SPST-NO 0.05A 24V	---	Omron	B3F-1000	Digi-Key	SW400-ND	
1	T1	10/100BASE-TX SMD Ultra PoE+	---	Halo Electronics	TG110-HPE7N5LF	Mouser	493-TG110-HPE7N5LF	
12	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	PC TEST POINT MINIATURE	---	Keystone	5000	Digi-Key	36-5000-ND	
1	U1	IC POE CNTRL 1 CHANNEL 8SOPWR	---	Texas Instruments	TPS2378DDAR	Digi-Key	296-41726-1-ND	
1	U2	OPTOISO 3.75KV TRANSISTOR 4SOIC	---	Broadcom	HCPL-181-000E	Digi-Key	516-1646-1-ND	
1	U3	IC MCU 8BIT 128KB FLASH 64TQFP	---	Microchip	PIC18F67J60-I/PT	Digi-Key	PIC18F67J60-I/PT-ND	
1	U4	IC EEPROM 2K SPI 10MHZ SOT23-6	---	Microchip	25AA02E48T-I/OT	Digi-Key	25AA02E48T-I/OTCT-ND	

1	U5	IC BUF NON-INVERT 5.5V SOT23-5	---	Texas Instruments	SN74LV1T125DBVR	Digi-Key	296-37172-1-ND
1	---	TERM BLOCK PLUG 3POS STR 3.81MM	---	Phoenix	1803581	Digi-Key	277-1162-ND
1	---	DC-DC ISOLATED, 10 W, 18-75 VDC	---	Cui	PDQE10-Q48-S5-T	Digi-Key	102-4842-ND