

WiFi Septic Controller Rev 1.0 BOM

Reference	Quantity	Value	Part Number	Manufacturer	Vendor	Vendor Part Number	Tolerance	Voltage
C1 C2	2	330uF	EEE-FT1H331GP	Panasonic	Mouser	667-EEE-FT1H331GP	20%	50V
C16 C18	2	1uF	0603ZC105JAT2A	AVX	Mouser	581-0603ZC105JAT2A	5%	10V
C3 C5 C8 C10 C17	5	22uF	TMK212BBJ226MG-TT	Taiyo Yuden	Mouser	963-TMK212BBJ226MGTT	20%	25V
C19 C20	2	15pF	06035A150JAT2A	AVX	Mouser	581-06035A150J	5%	50V
C11-C15 C21 C22	7	0.1uF	VJ0603Y104JXQPW1BC	Vishay	Mouser	77-VJ0603Y104JXQPBC	5%	10V
C4 C9	2	3.3nF	VJ0603Y332JXQPW1BC	Vishay	Mouser	77-VJ0603Y332JXQPBC	5%	10V
C6 C7	2	1nF	VJ0603Y102KXAAC31	Vishay	Mouser	77-VJ0603Y102KXAAC31	10%	50V
D1	1		DFLS130LQ	Diodes Inc	Mouser	621-DFLS130L		
D10	1	Blue	SML-LX0603USBW-TR	Lumex	Mouser	696-SML-0603USBWTR		
D2	1		DF206ST-G	Comchip Tech	Mouser	750-DF206ST-G		
D3-D5	3		TPD2E2U06QDBZRQ1	Texas Instruments	Mouser	595-TPD2E2U06QDBZRQ1		
D6	1		PRTR5V0U2X,215	Nexperia	Mouser	771-PRTR5V0U2X-T/R		
D7	1	Yellow	SML-LX0603SYW-TR	Lumex	Mouser	696-SML-LX0603SYW		
D8	1	Green	SML-LX0603SGW-TR	Lumex	Mouser	696-SML-LX0603SGW		
D9	1	Red	SML-LX0603SRW-TR	Lumex	Mouser	696-SML-LX0603SRW		
J1 J2	2		1984617	Phoenix Contact	Mouser	651-1984617		
J3 J8	2		1984620	Phoenix Contact	Mouser	651-1984620		
J4	1		1984659	Phoenix Contact	Mouser	651-1984659		
J5	1		614105150721	Wurth Electronics	Mouser	710-614105150621		
J6	1	Header	SSW-150-01-G-S	Samtec	Digikey	SAM1209-50-ND		
	1	Pin Strip (J6 Mate)	TSW-150-14-G-S	Samtec	Digikey	SAM1053-50-ND		
	1	16X2 LCD	GWT-C1627A-RGB	Unknown	Adafruit	399		
J7	1		202112100010C4LF	Amphenol FCI	Mouser	649-202112100010C4LF		
L1 L2	2	1k@1MHz	BLM31KN102SH1L	Murata	Mouser	81-BLM31KN102SH1L		
L3	1	470@1MHz	BLM18PG471SN1D	Murata	Mouser	81-BLM18PG471SN1D		
Q1 Q2 Q5-Q9	7	2N7002	2N7002L	On Semiconductor	Mouser	512-2N7002L		
Q3	1	DMG2305UX	DMG2305UX-7	Diodes Inc	Mouser	621-DMG2305UX-7		
Q4	1	BCM857BS	BCM857BS-7-F	Diodes Inc	Mouser	621-BCM857BS-7-F		
R1	1	1.21M	RC0603FR-071M21L	Yageo	Mouser	603-RC0603FR-071M21L	1%	
R10	1	47k	ERJ-3EKF4702V	Panasonic	Mouser	667-ERJ-3EKF4702V	1%	
R12 R6	2	22k	ERJ-P08J223V	Panasonic	Mouser	667-ERJ-P08J223V	5%	
R13-R18	6	100k	ERJ-P08J104V	Panasonic	Mouser	667-ERJ-P08J104V	5%	
R2	1	383k	ERJ-3EKF3833V	Panasonic	Mouser	667-ERJ-3EKF3833V	1%	
R19-R21	3	130	ERJ-3EKF1300V	Panasonic	Mouser	667-ERJ-3EKF1300V	1%	
R22	1	4.7k	ERJ-3EKF4701V	Panasonic	Mouser	667-ERJ-3EKF4701V	1%	
R23	1	39	ERJ-3EKF39R0V	Panasonic	Mouser	667-ERJ-3EKF39R0V	1%	
R11 R24 R26 R3 R5 R9	6	10k	ERJ-3EKF1002V	Panasonic	Mouser	667-ERJ-3EKF1002V	1%	
R25	1	330	ERJ-3EKF3300V	Panasonic	Mouser	667-ERJ-3EKF3300V	1%	
R28 R29	2	698	ERJ-3EKF6980V	Panasonic	Mouser	667-ERJ-3EKF6980V	1%	
R4	1	169	ERJ-3EKF1690V	Panasonic	Mouser	667-ERJ-3EKF1690V	1%	
R7	1	232k	RC0603FR-07232KL	Yageo	Mouser	603-RC0603FR-07232KL	1%	
R8	1	44.2k	ERJ-3EKF4422V	Panasonic	Mouser	667-ERJ-3EKF4422V	1%	
RL1 RL2	2	CPC1511Y	CPC1511Y	IXYS	Mouser	849-CPC1511		
RV1	1	10k	3339P-1-103LF	Bourns	Mouser	652-3339P-1-103LF		
SW1	1	Reset	B3U-1000P	Omron	Mouser	653-B3U-1000P		
SW2	1	Pump	PTS645SK70SMTR92LFS	Panasonic	Mouser	611-PTS645SM13SMTR92		
T1	1		VPP16-310	Triad Magnetics	Mouser	553-VPP16-310		
TP3	1		5126	Keystone	Mouser	534-5126		
U1 U2	2	LMZ21700	LMZ21700SILR	TI	Mouser	595-LMZ21700SILR		
U3 U4	2	MID400	MID400S	On Semi	Mouser	512-MID400S		
U5 U7	2	74LVC2G14	SN74LVC2G14DBVG4	Texas Instruments	Mouser	595-SN74LVC2G14DBVG4		
U6	1	ATWINC1500-MR210UB	ATWINC1500-MR210UB1140	Atmel	Mouser	579-C1500MR210UB1140		
U8	1	SAMD21G18-M	ATSAMD21G18A-MUT		Mouser	556-ATSAMD21G18A-MUT		
Y1	1	32.768kHz	ABS07-32.768KHZ-9-T	Abracon	Mouser	815-ABS07-32.768K9T		