



JTAGulator: Sparkle Add-On Board
Bill-of-Materials
HW A, Document 1.0, January 25, 2019

Item	Quantity	Reference	Manufacturer	Manuf. Part #	Distributor	Distrib. Part #	Description
1	1	C1	Kemet	C1206C475K3RACTU	Digi-Key	399-8204-1-ND	Capacitor, 4.7uF ceramic, 10%, 25V, X7R, 1206
2	1	C2	Kemet	C1206C105K5RACTU	Digi-Key	399-8147-1-ND	Capacitor, 1uF ceramic, 10%, 50V, X7R, 1206
3	1	C3	Yageo	CC1206KRX7R9BB473	Digi-Key	311-1178-1-ND	Capacitor, 0.047uF ceramic, 10%, 50V, X7R, 1206
4	1	C4	Kemet	C1206C103J5RACTU	Digi-Key	399-1237-1-ND	Capacitor, 0.01uF ceramic, 5%, 50V, X7R, 1206
5	3	D1, D2, D3	ON Semiconductor	MBR0540T1G	Digi-Key	MBR0540T1GOSCT-ND	Diode, Schottky, 40V, 500mA, SOD123
6	7	D4, D5, D6, D7, D8, D9, D10	Kingbright	AA3528VRVCS/A	Digi-Key	754-1534-1-ND	LED, Pink, 300mcd, 3.3Vf, PLCC2 (3528)
7	1	L1	TDK	NLFV32T-6R8M-EF	Digi-Key	445-15776-1-ND	Inductor, 6.8uH, 20%, 260mA, 204mOhm, 1210
8	1	Q1	Fairchild	MMBT3904	Digi-Key	MMBT3904FSCT-ND	Transistor, NPN, 40V, 200mA, SOT23-3
9	1	R1	Any	Any	Digi-Key	P1.5KECT-ND	Resistor, 1.5k, 5%, 1/4W, 1206
10	1	R2	Any	Any	Digi-Key	P4.53KFCT-ND	Resistor, 4.53k, 1%, 1/4W, 1206
11	4	TP1, TP2, TP3, TP4	N/A	P75-A2	Adafruit	2428	Pogo Pin, Cupped Head, 16.5mm L, 1mm D
12	1	U1	Linear Technology	LT1932ES6#TRMPBF	Digi-Key	LT1932ES6#TRMPBFCT-ND	IC, DC-DC LED Driver, Constant Current, TSOT23-6
13	1	PCB	OSH Park	N/A	N/A	N/A	PCB, Fabrication