

Part	X	Y	Angle	Package	Value	Manufacturer	Manufacturer Part No	Farnell Part No	McMaster Part No	Mouser Part No	Description
Dimensions	50.80	50.80									
Fiducials - for solder paste mask alignment:											
FD1	0.76	50.04	0								Fiducial 0.635mm
FD2	49.91	0.89	0								Fiducial 0.635mm
Surface Mount Components:											
C1	18.54	13.34	270	0603	0.1uF	Murata	GRM188R71H104JA93D	2688523			MultiLayer Ceramic Capacitor; 0.1uF; 50V; 0603; X7R
C2	34.67	29.85	270	0603	2.2uF	AVX	06036D225KAT2A	1327678			MultiLayer Ceramic Capacitor; 2.2uF; 6.3V; 0603; X5R
C3	27.43	30.48	270	0603	1.0uF	Walsin	0603X105K100CT	2496916			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R
C4	36.32	29.85	270	0603	0.22uF	Multicomp	MC0603F224Z160CT	1759019			MultiLayer Ceramic Capacitor; 0.22uF; 16V; 0603
C7	11.43	25.40	270	0603	10uF	AVX	06036D106MAT2A	1833804			MultiLayer Ceramic Capacitor; 10uF; 6.3V; 0603; X5R
C8	38.48	24.38	180	0603	1.0uF	Walsin	0603X105K100CT	2496916			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R
C9	40.51	35.94	270	0603	10nF	Walsin	0603B103K101CT	2496825			MultiLayer Ceramic Capacitor; 10nF; 100V; 0603; X7R
C10	33.15	33.40	0	0603	1.0uF	Walsin	0603X105K100CT	2496916			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R
D1	48.26	13.97	0	0603		Kingbright	KPT-1608SURCK	2099224			Red LED 0603
D2	48.26	16.51	0	0603		Kingbright	KP-1608SYCK	2290330			Yellow LED 0603
D3	48.26	19.05	0	0603		Kingbright	KP-1608CGCK	2290328			Green LED 0603
J1	22.70	34.49	0		SS4-10-3.50	Samtec	SS4-10-3.50-L-D-K-TR	2085336			Samtec SS4-10-3.50-L-D-K-TR
J2	3.24	25.40	270		SM04B-SRSS-TB	JST	SM04B-SRSS-TB	1830839			4-way 1mm Qwiic connector SparkFun PRT-14417
J4	47.56	25.40	90		SM04B-SRSS-TB	JST	SM04B-SRSS-TB	1830839			4-way 1mm Qwiic connector SparkFun PRT-14417
J7	38.73	40.96	90	uFL	uFL	Hirose	U.FL-R-SMT(01)	3908021			HIROSE U.FL-R-SMT(01); U.FL Coaxial; Straight Jack; 50 ohm
Q1	29.08	35.56	0	SOT23		Diodes Inc.	DMG3414U-7	2061404			MOSFET; N Channel; SOT23-WIDE
R1	43.18	13.97	180	0603	1k	Multicomp	MCWR06X1001FTL	2447272			Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW
R2	6.35	33.02	90	0603	2.2k	Multicomp	MCWR06X2201FTL	2447320			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R3	3.81	33.02	90	0603	2.2k	Multicomp	MCWR06X2201FTL	2447320			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R4	17.65	16.26	0	0603	4.7k	Multicomp	MCWR06X4701FTL	2447385			Chip Resistor; Thick Film; 4.7k; 50V; 0603; 100mW
R5	22.23	13.34	90	0603	10k	Multicomp	MCWR06X1002FTL	2447230			Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
R6	47.24	31.75	90	0603	12k	Multicomp	MCWR06X1202FTL	2447243			Chip Resistor; Thick Film; 12k; 50V; 0603; 100mW
R7	44.2	31.75	270	0603	30.1k	Multicomp	MCWR06X3012FTL	2447334			Chip Resistor; Thick Film; 30.1k; 50V; 0603; 100mW
R8	39.12	29.85	270	0603	100k	Multicomp	MCWR06X1003FTL	2447226			Chip Resistor; Thick Film; 100k; 50V; 0603; 100mW
R9	30.48	39.12	90	0603	0.012 Ohm	Yageo	RL0603FR-070R012L			603-RL0603FR070R012L	Current Sense Resistor; 12 mOhms; 0603; 100mW
R10	37.85	35.05	180	0603	100R	Multicomp	MCWR06X1000FTL	2447227			Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW
R11	37.85	36.83	0	0603	100R	Multicomp	MCWR06X1000FTL	2447227			Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW
R12	43.18	16.51	180	0603	1k	Multicomp	MCWR06X1001FTL	2447272			Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW
R13	43.05	19.05	180	0603	2.2k	Multicomp	MCWR06X2201FTL	2447320			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R14	39.62	32.38	0	0603	10k	Multicomp	MCWR06X1002FTL	2447230			Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
U1	24.77	19.05	0	SO14		Microchip	ATTINY841-SSU	2396716			Microchip AVR Attiny841 16MHz SOIC
U2	30.61	29.72	0	DFN-10	LTC3225EDDB	Linear Technology	LTC3225EDDB8TRMPBF	1715231		584-C3225EDDBTRMPBF	Supercapacitor Charger
U3	34.04	36.96	0	TSOT6	ADM4210-1	Analog Devices	ADM4210-1			584-ADM4210-1AUJZ-R7	Hot Swap Controller

SC1 and SC2 are optional - they are only required if you select 60mA charge current. Install them flat against the underside of the PCB, carefully bending the legs first. Glue them in place if required.