

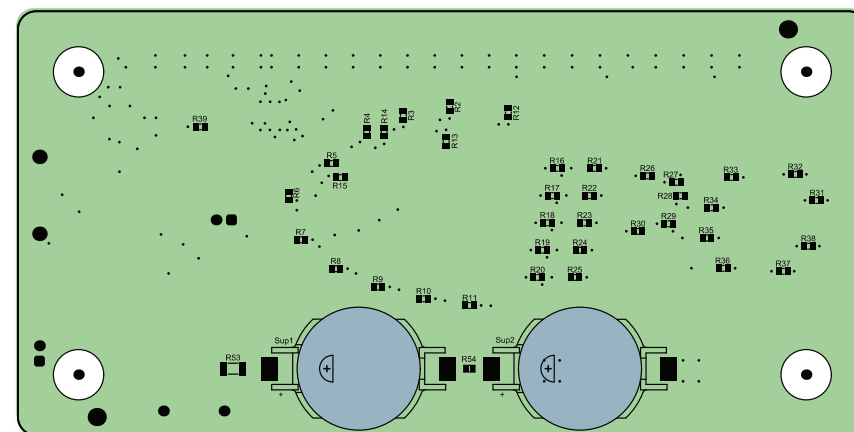
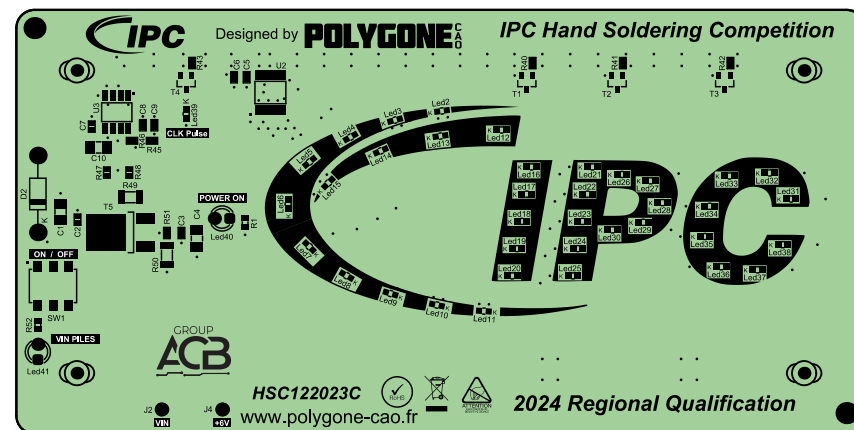


2024 COMPETITION KIT

IPC HAND SOLDERING COMPETITION

2024 | Regional Competition | PROFESSIONAL

Box	Side	Component	Package	Reference Designator	Technology	Qty
1	Top	Chip Capacitor 10µF - 25V - X7R - 1206	1206	C1, C4, C10	SMT	3
2	Top	Chip Capacitor 100nF - 25V - X7R - 0402	0402	C2, C3, C5, C8	SMT	4
3	Top	Chip Capacitor 1µF - 25V - X5R - 0402	0402	C6, C9	SMT	2
4	Top	Chip Capacitor 10nF - 25V - X7R - 0402	0402	C7	SMT	1
5	Top	Diode Rectifiers 400V@1A - TH 59-10	THT	D2	THT	1
6	Bottom	Snap-in Spacer Reverse Mount	THT	FIX1, FIX2, FIX3, FIX4	THT	4
7	Top	Chip LED AMBER	0603	Led2, Led3, Led4, Led5, Led6, Led7, Led8, Led9, Led10, Led11, Led12, Led13, Led14, Led15	SMT	14
8	Top	Chip LED BLUE	0603	Led16, Led17, Led18, Led19, Led20, Led21, Led22, Led23, Led24, Led25, Led26, Led27, Led28, Led29, Led30, Led31, Led32, Led33, Led34, Led35, Led36, Led37, Led38	SMT	23
9	Top	Chip LED RED	0603	Led39	SMT	1
10	Top	Round LED 3mm GREEN	THT	Led40, Led41	THT	2
11	Top/Bottom	Thin Film Chip Resistor 249R - 1% - 100mW	0603	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R52	SMT	40
12	Top	Chip Resistor 10K - 1% - 63mW - 0402	0402	R40, R41, R42, R43, R45, R48	SMT	6
13	Top/Bottom	Chip Resistor 0R - 1% - 63mW - 0402	0402	R46, R47, R54	SMT	3
14	Top/Bottom	Chip Resistor 0R - 1% - 500mW - 1206	1206	R49, R53	SMT	2
15	Top	Chip Resistor 1K - 1% - 750mW - 1206	1206	R50	SMT	1
16	Top	Precision Timer	SOIC-8	U3	THT	1
17	Top	SIPMOS N-Channel 60V@0.2A	SOT23	T1, T2, T3, T4	SMT	4
17	Top	MOSFET P-Channel -45V@-4.5A	DPAK	T5	SMT	1
17	Top	Counter Divider	TSOP16	U2	SMT	1
18	Top	Wire Strap AWG22	THT	Strap1	THT	1
18	Top	Slide Switches - Right Angle	DPDT	SW1	SMT	1
18	Bottom	Battery Holder CR2032	SMD	Sup1, Sup2	SMT	2
N/A	N/A	PCB - Competition Board		HSC-WF 2023	2 Layers	1



Component Box Placement

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18



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Silver Sponsors

