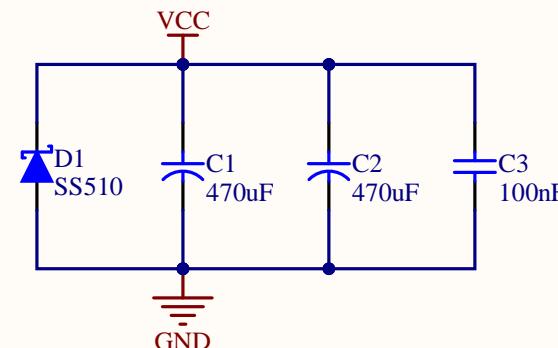
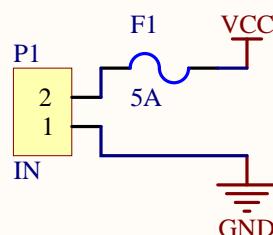
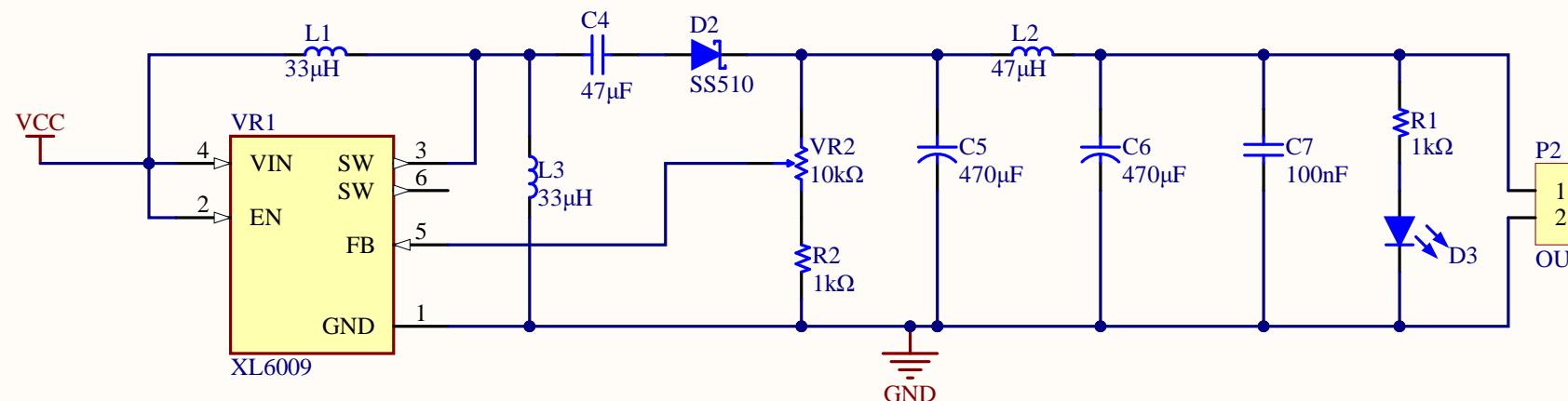


A



B

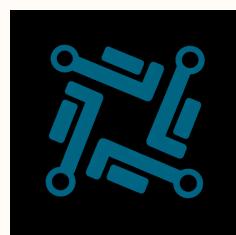


A

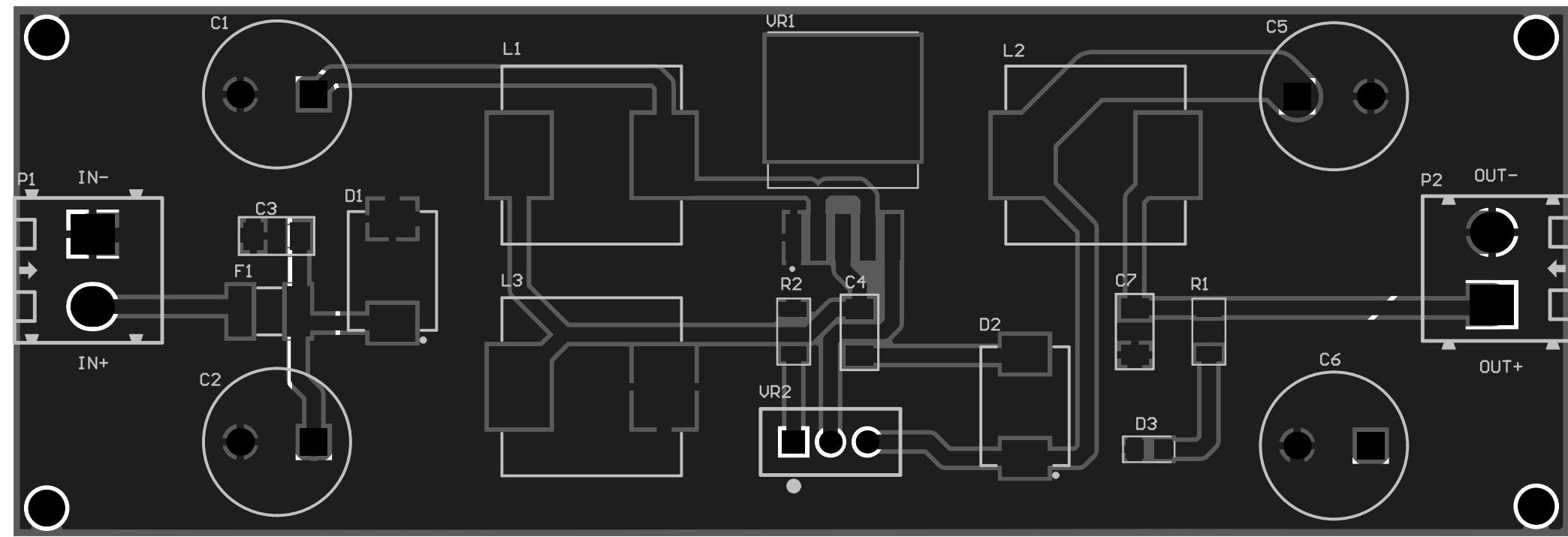
B

C

HOANG LE TRUNG KIEN



Title XL6009		
Size A4	Number 09072005	Revision 1.0
Date: 1/21/2026	Sheet of 1	
File: F:\ALTIUM_PROJECT\..\Sheet1.SchDoc	Drawn By: HOANG LE TRUNG KIEN	



Comment	Description	Designator	Footprint	LibRef	Quantity
470uF	Capacitor pol	C1, C2	CYL/D.400/LS200	Capacitor	2
100nF	Capacitor non-pol	C3, C7	C1206	Capacitor NP	2
47μF	Capacitor non-pol	C4	CAP Ceramic/W300	Capacitor NP	1
470μF	Capacitor pol	C5, C6	CYL/D.400/LS200	Capacitor	2
SS510	Schottky Diode	D1, D2	DO-214AB(SMC)	Diode Schottky	2
Led	Typical LED	D3	Led 0805 RED	Led	1
5A	Fuse	F1	Fuse 1812P050	Fuse	1
33μH	Inductor	L1, L3	Inductor SMD 12x12x8	Inductor	2
47μH	Inductor	L2	Inductor SMD 12x12x8	Inductor	1
IN	Header, 2-Pin	P1	HDR/Terminal/2/5mm	Header 2	1
OUT	Header, 2-Pin	P2	HDR/Terminal/2/5mm	Header 2	1
1kΩ	Resistor	R1, R2	R 1206	Resistor	2
XL6009	The XL6009 regulator is a wide input range, current mode, DC/DC converter which is capable of generating either positive or negative output voltages.	VR1	DPAK170P1435X465-6N	XL6009	1
10kΩ	Resistor Variable	VR2	RVARE	Resistor Variable	1