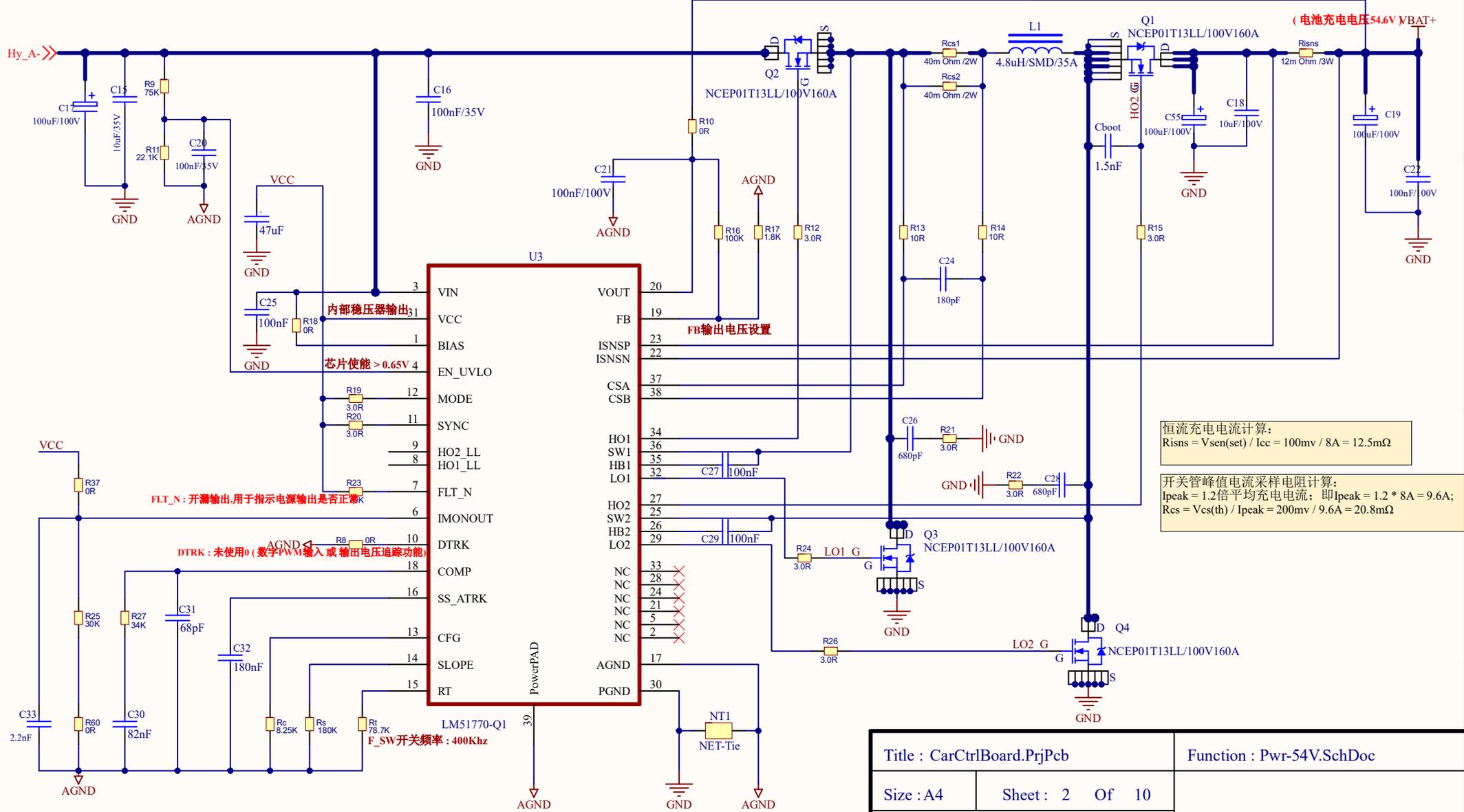


电感选型(4.8uH)备选型号:
 伍尔特: 7443551470
 威世: IHSM-7841-4R7M / IHLP6767GZER4R7M01
 其他型号: RSPQ2918-4R7M

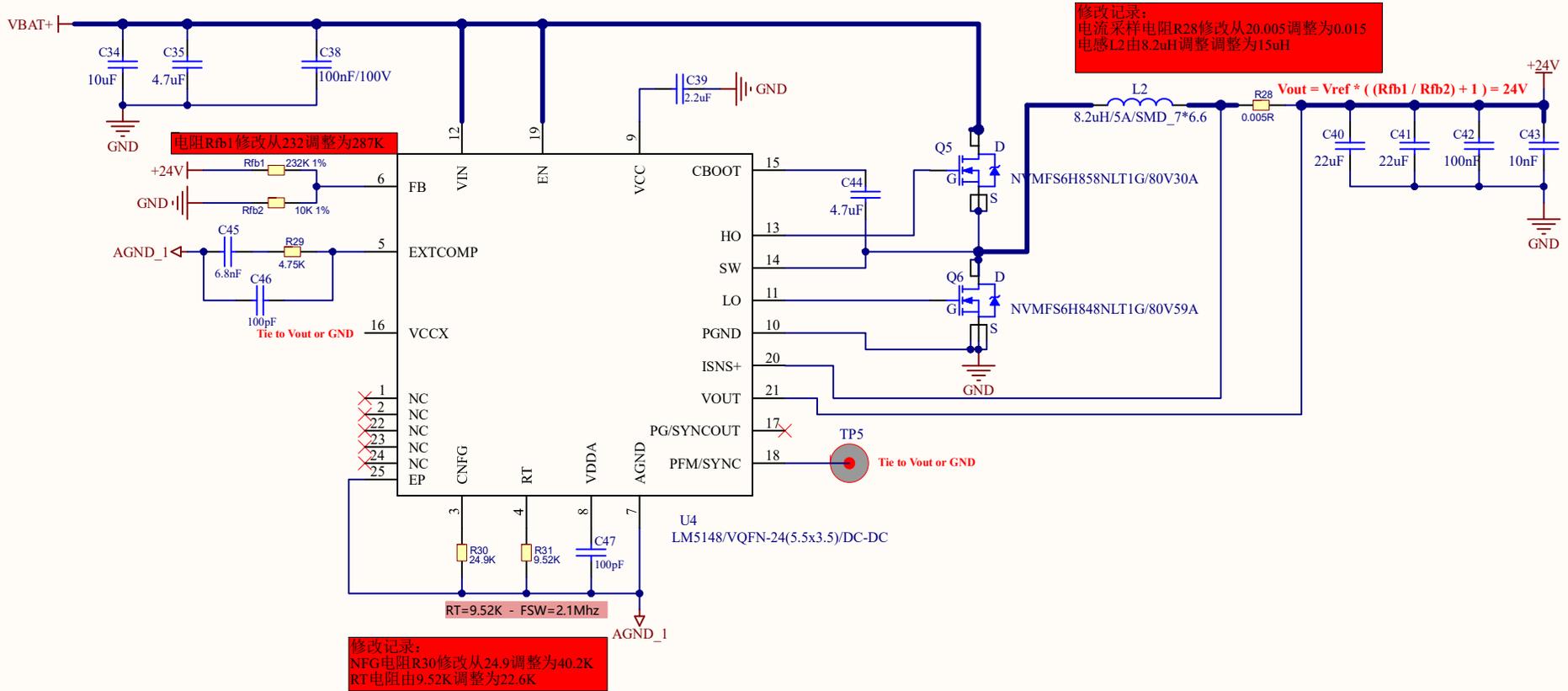
(电池充电电压 54.6V) VBAT+



恒流充电电流计算:
 $R_{isns} = V_{sen(set)} / I_{cc} = 100\text{mV} / 8\text{A} = 12.5\text{m}\Omega$

开关管峰值电流采样电阻计算:
 $I_{peak} = 1.2 \times \text{平均充电电流} = 1.2 \times 8\text{A} = 9.6\text{A}$;
 $R_{cs} = V_{cs(th)} / I_{peak} = 200\text{mV} / 9.6\text{A} = 20.8\text{m}\Omega$

Title : CarCtrlBoard.PrjPcb		Function : Pwr-54V.SchDoc	
Size : A4	Sheet : 2	Of 10	
Drawn By : *			
Date : 2025/12/2			



Title : CarCtrlBoard.PrjPcb		Function : Pwr-24V.SchDoc	
Size : A4	Sheet : 3 Of 10		
Drawn By : *			
Date : 2025/12/2			