

Figure 11: EPC9509 - ZVS class-D amplifier schematic

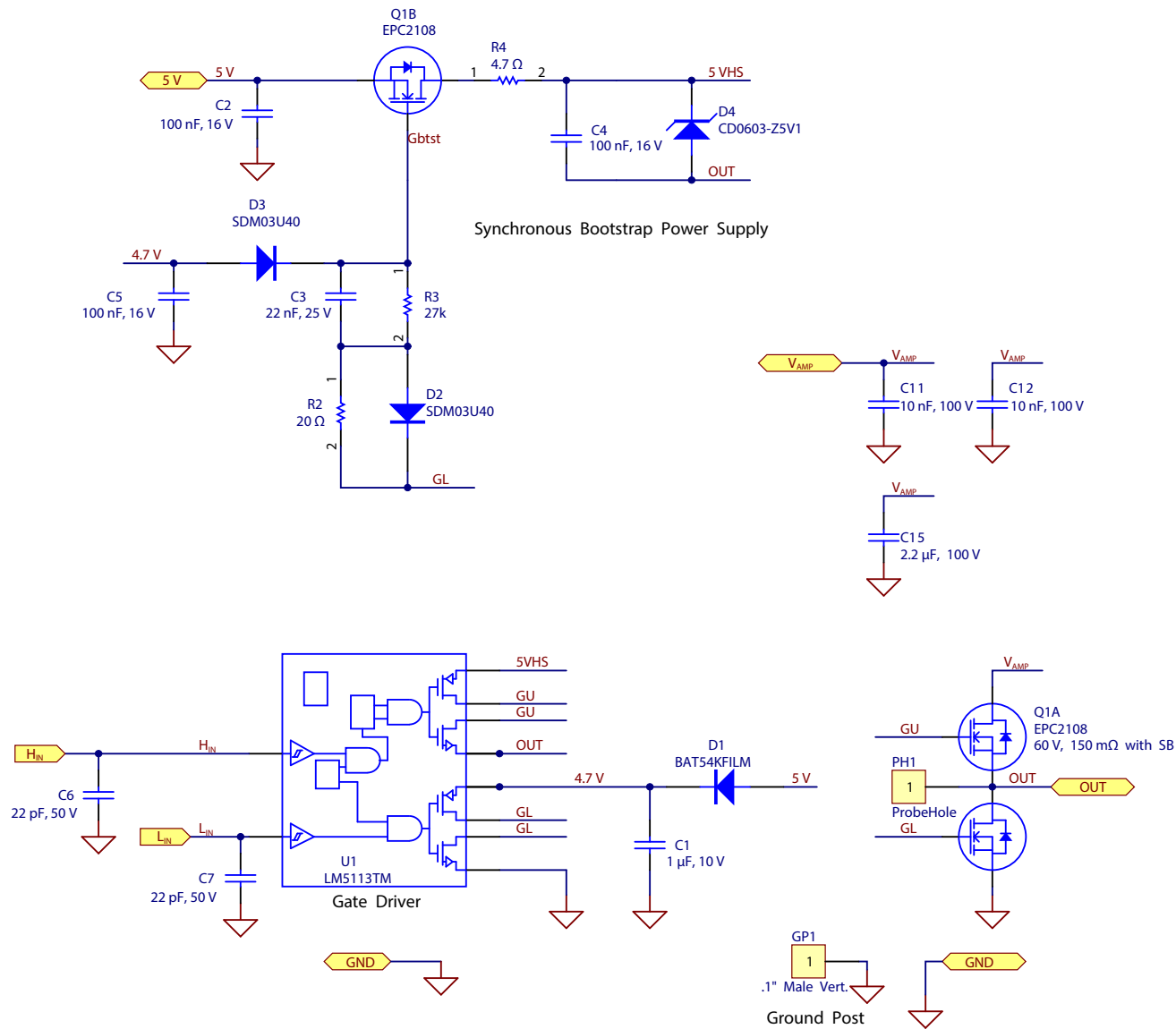


Figure 12: EPC9509 - Gate driver and power devices schematic
 This schematic is repeated for each single-ended ZVS class D amplifier.

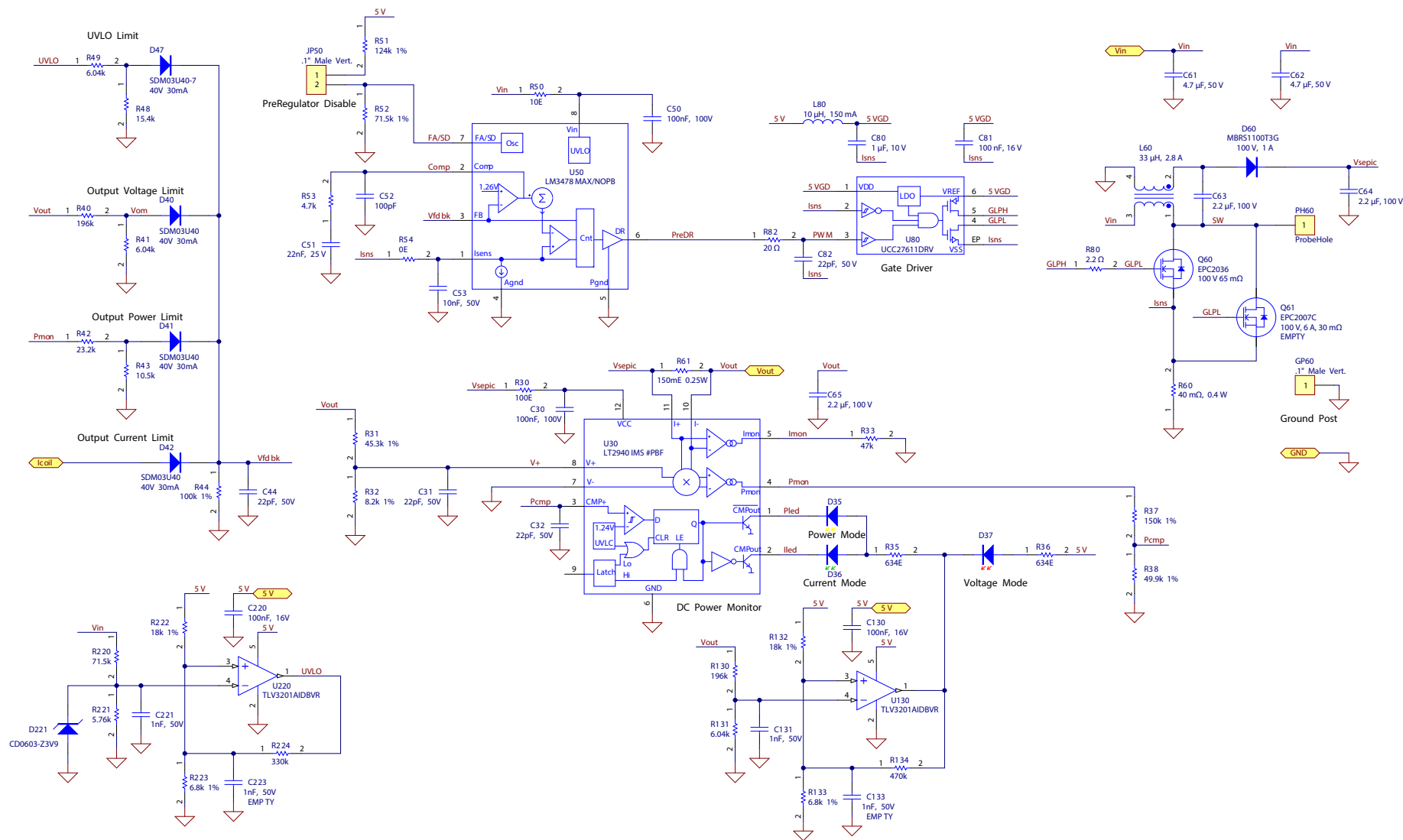


Figure 13: EPC9509 - Pre-regulator schematic.

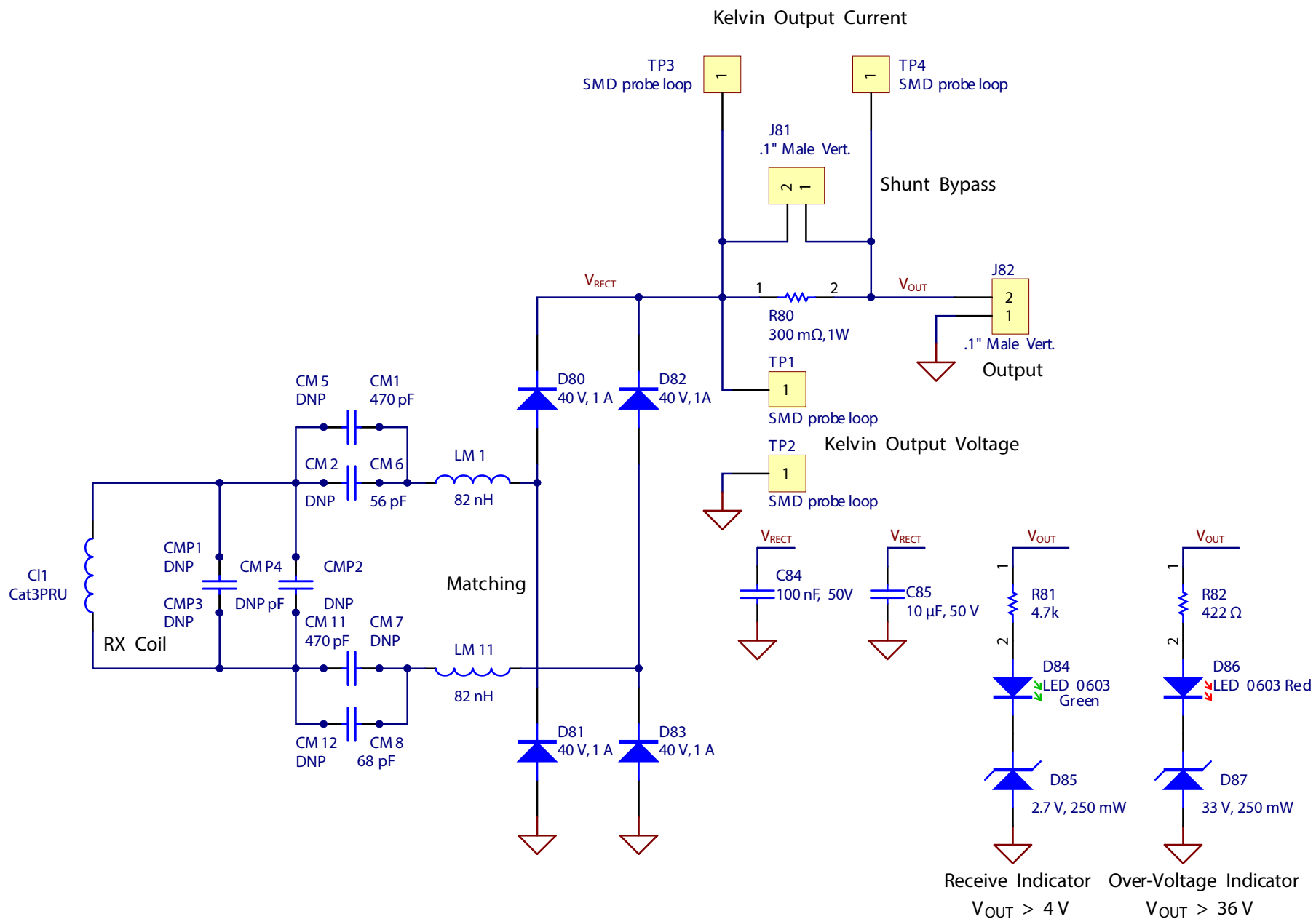


Figure 14: Category 3 device board schematic

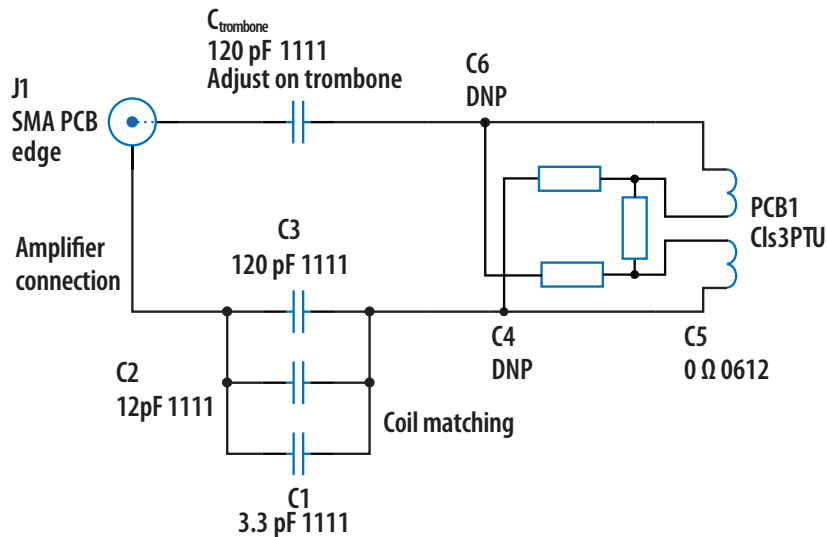


Figure 15: Class 2 Source Board Schematic



EPC would like to acknowledge Würth Elektronik (www.we-online.com) for their support of this project.

Würth Elektronik is a premier manufacturer of electronic and electromechanical passive components. EPC has partnered up with Würth Elektronik for a variety of passive component requirements due to the performance, quality and range of products available. The EPC9128 demonstration system features various Würth Elektronik product lines including capacitors, LEDs and connectors.

Also featured on the board are numerous Würth Elektronik power inductor technologies including WE-AIR air core inductors. The inductors were chosen for their balance between size, efficiency, current handling capability, reliability, and lowest DCR losses.

Learn more at www.we-online.com.



EPC would like to acknowledge NuCurrent (www.NuCurrent.com) for their support of this project.

NuCurrent is a leading developer of high-efficiency antennas for wireless power applications. Compliant across AirFuel Alliance and Wireless Power Consortium (Qi) standards, NuCurrent works closely with electronic device OEMs and integrators to custom-design, rapid-prototype and integrate the optimal antenna for a broad range of applications. NuCurrent’s patented designs, structures and manufacturing techniques mitigate typical high frequency effects, offering higher efficiency, smaller sizes, higher durability and lower cost with wireless power application development.

For more information, visit www.nucurrent.com