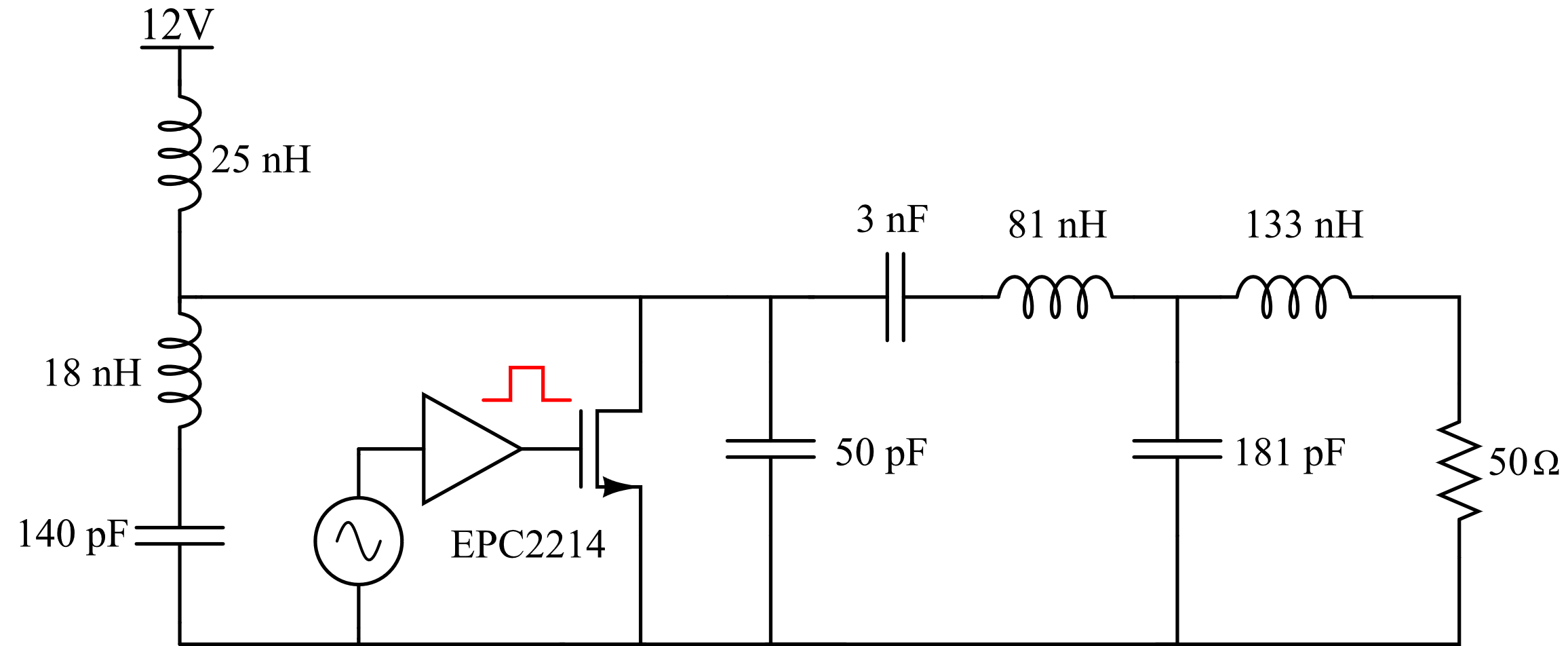
50 MHz GaN Based Power Amplifier with Digital Resonant Gate Drive

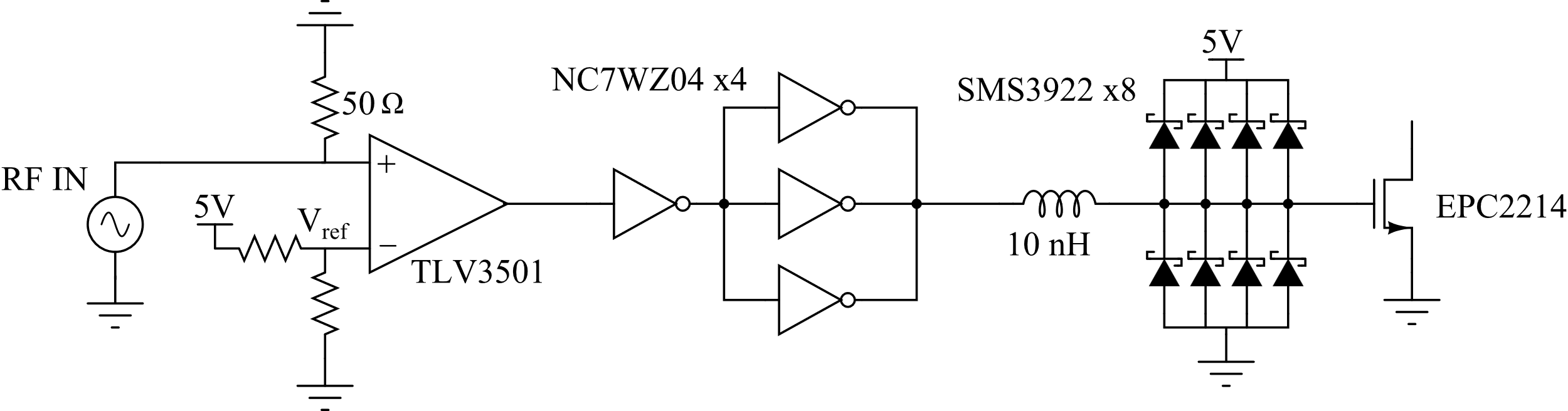
Calvin H Lin

Zhechi Ye

**Schematic: Primary Power Stage**



**Resonant Gate Drive**



**Parts List**

|  |  |  |
| --- | --- | --- |
| **Part Number** | **Description** | **Quantity** |
| EPC2214 | 80 V 47 A GaN Transistor | 1 |
| TPS563203 | 12V to 5V Buck Converter IC | 1 |
| NC7WZ04 | Digital Buffer Inverter IC | 4 |
| TLV3501 | Comparator IC | 1 |
| SMS3922 | 50 mA RF Schottky Diode | 8 |
| Capacitors |  |  |
| Inductors |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |