

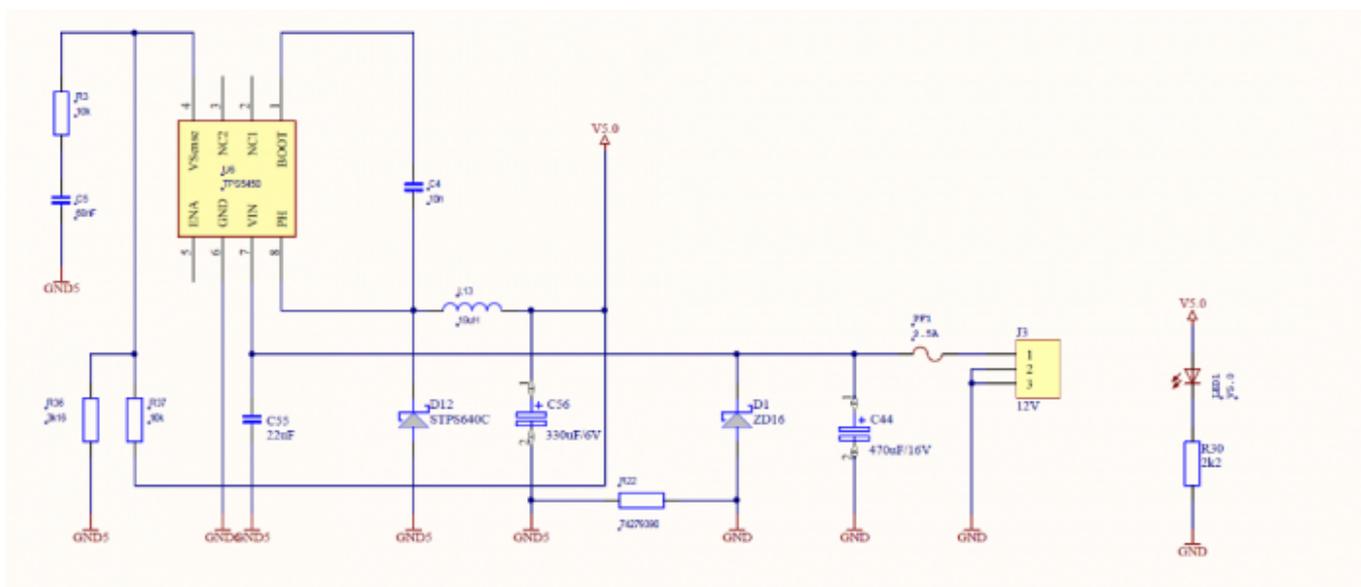
# AMSAT-DL 2.4 GHz 6W PA

## Circuit diagram power supply

In order to ensure a constant output power with a high degree of efficiency over a wide supply voltage range from 6V to 15V, a small, highly efficient switched-mode power supply based on a TPS5450 from Texas Instrument is integrated into the PA. All 3 amplifier modules are operated with a regulated supply voltage of + 5V.

The PA is implemented on a very compact circuit board with the dimensions 42mm x 53mm. A combination of FR4 and Teflon is used as the circuit board material in order to minimize HF losses and at the same time optimize manufacturing costs.

All SMD components are assembled using a professional assembly and soldering system.



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