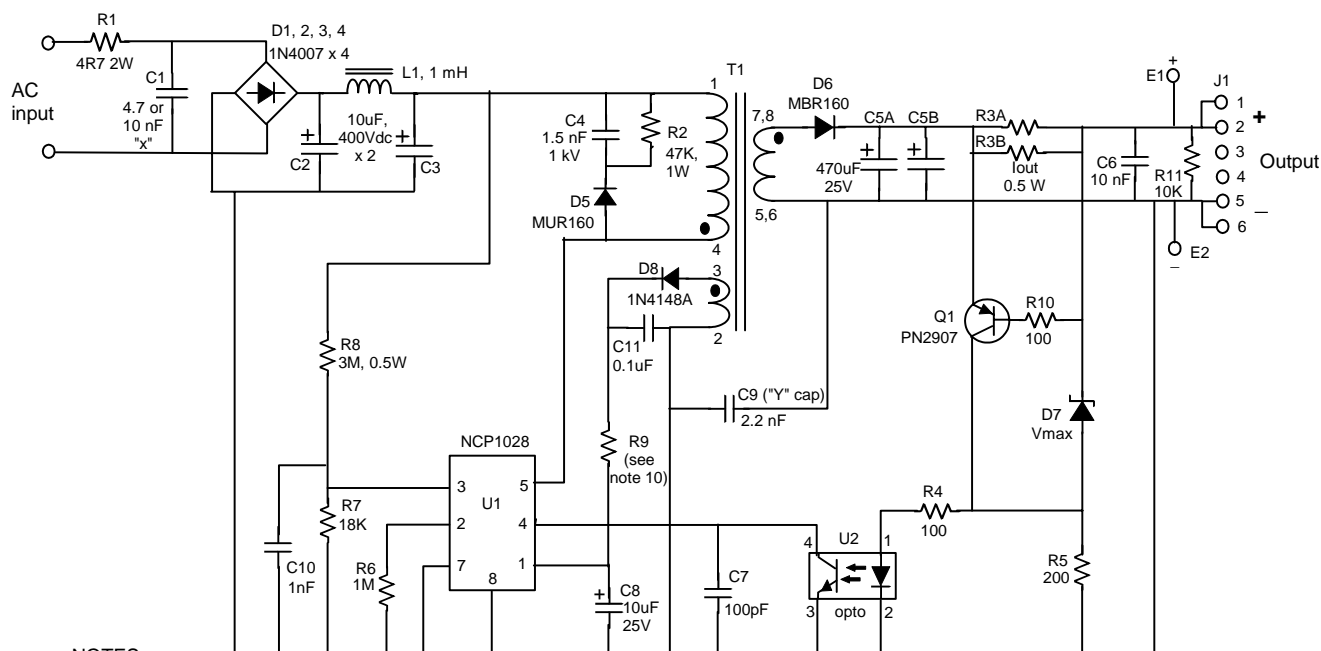


Schematic for the NCP1028LED Evaluation Board



NOTES:

1. L1 is Coilcraft part RFB0807-102 (1 mH @ 250 mA) for EMI compliance.
2. U2 is 4 pin optocoupler with CTR of 50% minimum(Vishay)
3. See Magnetics Data Sheet for T1 construction details (EF-16 core & horizontal bobbin.)
4. U1 is NCP1028 (15W max).
5. D7 zener sets Vout max: $V_{out} = V_z + 0.85V$ (should not exceed 25V).
6. R3A, R3B set max current: $I_{max} = 0.65/(R_{total})$, use both resistors for $I > 0.5A$
7. Fuse resistor recommended for R1.
8. Crossed schematic lines are not connected.
- 9.R7, R8, C10 provide brownout protection
10. D8, C11, R9 and xfmr winding (2-3) necessary for NCP1028. For specified xfmr ,R9 = 1.5K.
11. C5B optional depending on output ripple requirements.
12. J1 is Tyco # 535676-5 connector for demo board applications.

**NCP1028LED Constant Current
LED Driver (Universal Input)
Final Rev2**