



Non-polarized capacitors on this page are 10V X5R unless otherwise noted. Resistors on this page are $\pm 1\%$ unless otherwise noted. electrolytic capacitor voltage ratings are read from markings ceramic capacitor values are measured or estimated A7 and M7 diodes are similar spec to 1N4007 but are in SMF and SMA packages. R1 1M Output of OB2222M is non-isolated and is referenced to input ground. U1 OB2222M С3 R3 4.7µ PWR_FLAG +5٧ L1 1 M D2 D5 500 R2 D1 2.2mH Α7 Α7 0 М7 ±10% RECT_AC HV_DC GND FUSED_AC FB C5 C6 R5 ≷ C1 3.3u 3.3u 500m 1µF 400V 400V L2 C17 10μ 470µH U1_GND C7 $\dot{\uparrow}$ D3 ES2J 470μ GND 100 \rightarrow GND Assumed power rating of 3.3 regulator is 300mA due to 500mA rating of microcontroller used. Higher values are not available in SOT-89 packages. R26 R +5V +3V3 U2 STK17-3.3 VO C12 C11 C9 10μ 10μ 10μ 6.30 6.3٧ $\dot{\uparrow}$ GND Sheet: /power supplies/ File: powersupplies.kicad_sch Title: power supplies Size: USLetter Date: 2025-08-17 Rev: a KiCad E.D.A. 9.0.3 ld: 3/4

