

Panson Audio Labs

Initial Power Amplifier

Power Board rev 2.2 for 5-Lead TO-264 ThermalTrak

| Part | Value | Misc. |
|-------------|--------------------------------|----------------------|
| C1 | 0.1uF | BC MKP |
| C2 | 820uF, 63V | United Chemi-Con |
| C3 | 820uF, 63V | United Chemi-Con |
| C4 | 0.1uF | BC MKP |
| C5 | optional | |
| C6 | 0.1uF | BC MKP |
| C7 | 0.1uF | BC MKP |
| D1 | 1N4007 | |
| D2 | 1N4007 | |
| L1 | 10 turns on R11 | |
| Q1 | NJL3281 | ON Semi |
| Q2 | NJL3281 | ON Semi |
| Q5 | NJL1302 | ON Semi |
| Q6 | NJL1302 | ON Semi |
| Q9 | MJE15030 | ON Semi |
| Q10 | MJE15031 | ON Semi |
| R1 | 10 Ω | 1%, 0.5W metal film |
| R2 | 10 Ω | 1%, 0.5W metal film |
| R3 | 180 Ω | 5%, 2W wire wound |
| R4 | 10 Ω | 1%, 0.5 W metal film |
| R5 | 10 Ω | 1%, 0.5 W metal film |
| R6 | 0.22 Ω | MPC 5%, 5W |
| R7 | 0.22 Ω | MPC 5%, 5W |
| R8 | 0.22 Ω | MPC 5%, 5W |
| R9 | 0.22 Ω | MPC 5%, 5W |
| R10 | 10 Ω | 5%, 2 W wire wound |
| R11 | 10 Ω | 5%, 2 W wire wound |
| C15 | 0.1uF | BC MKP |
| SV1 | female 90 deg. pin header 10x2 | |

| | |
|-----|------------------------------|
| SV2 | female 90 deg.pin header 5x2 |
| SV3 | female 90 deg.pin header 5x2 |
| X1 | Connector |
| X2 | Connector |
| H1 | Heat sink for MJE15030 |
| H2 | Heat sink for MJE15031 |