

Part list

Reference Part

R1	1k Ω resistor
R2	100k Ω resistor
R3	1k Ω resistor
R4	30k Ω resistor
C1,C2	100nF 63V
C3	22 μ F 35V bipolar electrolytic
C4,C5	470 μ F 40V electrolytic
D1-D4	10A 100V Schottky diode
C6,C7	4700 μ F 40V electrolytic
U1	LM3875

Standard vs. "deluxe" version

Standard

- Philips SFR-25 5% resistors
- Ceramic 100nF capacitors
- No-name Japanese electrolytics
- LM3875T with metal tab

Deluxe

- Welwyn low-noise 1% metalfilm resistors
- Wima 100nF film capacitors
- High-quality Philips electrolytics
- LM3875TF with isolated tab (easier installation)

Technical specs

These specs. were measured on the prototype board.

	Test one:	Test two:
Transformer type:	2*15V 100VA	2*22V 160VA
Measured voltage:	2*18V	2*22V
DC voltage at idle:	+/-24V	+/-32.2V
DC voltage at max. power:	+/-22.3V	+/-30V
Peak output voltage:	19V	25V
Output power (8 Ω):	22.5W	38W
Input sensitivity:	433mV	570mV

Common data:

Frequency response (measured at 7W out).

-1dB response: 17Hz-110kHz

-3dB response: 7Hz-220kHz