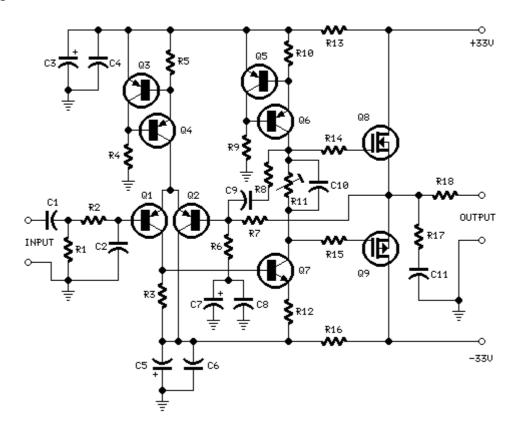
25 Watt MosFet Audio Amplifier

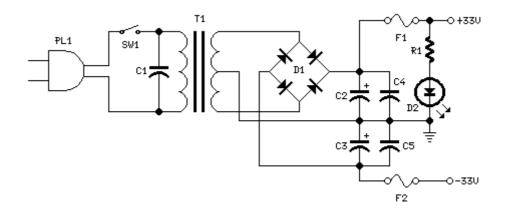
High Quality simple unit. No need for a preamplifier Circuit diagram:



Parts:

R3	R1,R447K 1/4W Resistors
R5	R24K7 1/4W Resistor
R6	R31K5 1/4W Resistor
R7	R5390R 1/4W Resistor
R8150K 1/4W Resistor R915K 1/4W Resistor R1027R 1/4W Resistor R11500R 1/2W Trimmer Cermet R12,R13,R1610R 1/4W Resistors R14,R15220R 1/4W Resistors R178R2 2W Resistor R18R22 4W Resistor (wirewound) C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470μF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100μF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101μF 63V Polyester Capacitor C101μF 63V Polyester Capacitor	R6470R 1/4W Resistor
R9	
R1027R 1/4W Resistor R11500R 1/2W Trimmer Cermet R12,R13,R1610R 1/4W Resistors R14,R15	R8150K 1/4W Resistor
R11500R 1/2W Trimmer Cermet R12,R13,R1610R 1/4W Resistors R14,R15220R 1/4W Resistors R178R2 2W Resistor R1822 4W Resistor (wirewound) C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor	R915K 1/4W Resistor
R12,R13,R1610R 1/4W Resistors R14,R15220R 1/4W Resistors R178R2 2W Resistor R1824W Resistor (wirewound) C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor	
R14,R15220R	
R178R2 2W Resistor R18872 4W Resistor (wirewound) C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
R18R22 4W Resistor (wirewound) C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor	R14,R15220R 1/4W Resistors
C1470nF 63V Polyester Capacitor C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor	
C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	R18R22 4W Resistor (wirewound)
C2330pF 63V Polystyrene Capacitor C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
C3,C5470µF 63V Electrolytic Capacitors C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	C1470nF 63V Polyester Capacitor
C4,C6,C8,C11_100nF 63V Polyester Capacitors C7100µF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	C2330pF 63V Polystyrene Capacitor
C7100μF 25V Electrolytic Capacitor C910pF 63V Polystyrene Capacitor C101μF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
C910pF 63V Polystyrene Capacitor C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
C101µF 63V Polyester Capacitor Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
Q1-Q5BC560C 45V 100mA Low noise High gain PNP Transistors	
	C101µF 63V Polyester Capacitor
	Q6BD140 80V 1.5A PNP Transistor
Q8IRF532 100V 12A N-Channel Hexfet Transistor	
	Q9IRF9532 100V 10A P-Channel Hexfet Transistor
00 IDE0500 400V 40A D Obsessable (at Tax 11)	Q9IRF9532 100V 10A P-Channel Hextet Transistor

Power supply circuit diagram:



Parts:

R1	3K3 1/2W Resistor
C1 C2,C3 C4,C5	10nF 1000V Polyester Capacitor _4700µF 50V Electrolytic Capacitors _100nF 63V Polyester Capacitors
D1 D2	200V 8A Diode bridge 5mm. Red LED
F1,F2	_3.15A Fuses with sockets
T1	220V Primary, 25 + 25V Secondary 120VA Mains transformer
PL1	Male Mains plug
SW1	SPST Mains switch

Notes:

- Can be directly connected to CD players, tuners and tape recorders. Simply add a 10K Log potentiometer (dual gang for stereo) and a switch to cope with the various sources you need.
- Q6 & Q7 must have a small U-shaped heatsink.
- Q8 & Q9 must be mounted on heatsink.
- Adjust R11 to set quiescent current at 100mA (best measured with an Avo-meter in series with Q8 Drain) with no input signal.
- A correct grounding is very important to eliminate hum and ground loops. Connect in the same point the ground sides of R1, R4, R9, C3 to C8. Connect C11 at output ground.
 Then connect separately the input and output grounds at power supply ground.

Technical data:

Output power: well in excess of 25Watt RMS @ 8 Ohm (1KHz sinewave)

Sensitivity: 200mV input for 25W output **Frequency response:** 30Hz to 20KHz -1dB

Total harmonic distortion @ 1KHz: 0.1W 0.014% 1W

0.006% 10W 0.006% 20W 0.007% 25W 0.01% **Total harmonic distortion @10KHz:** 0.1W

0.024% 1W 0.016% 10W 0.02% 20W 0.045% 25W 0.07%

Unconditionally stable on capacitive loads