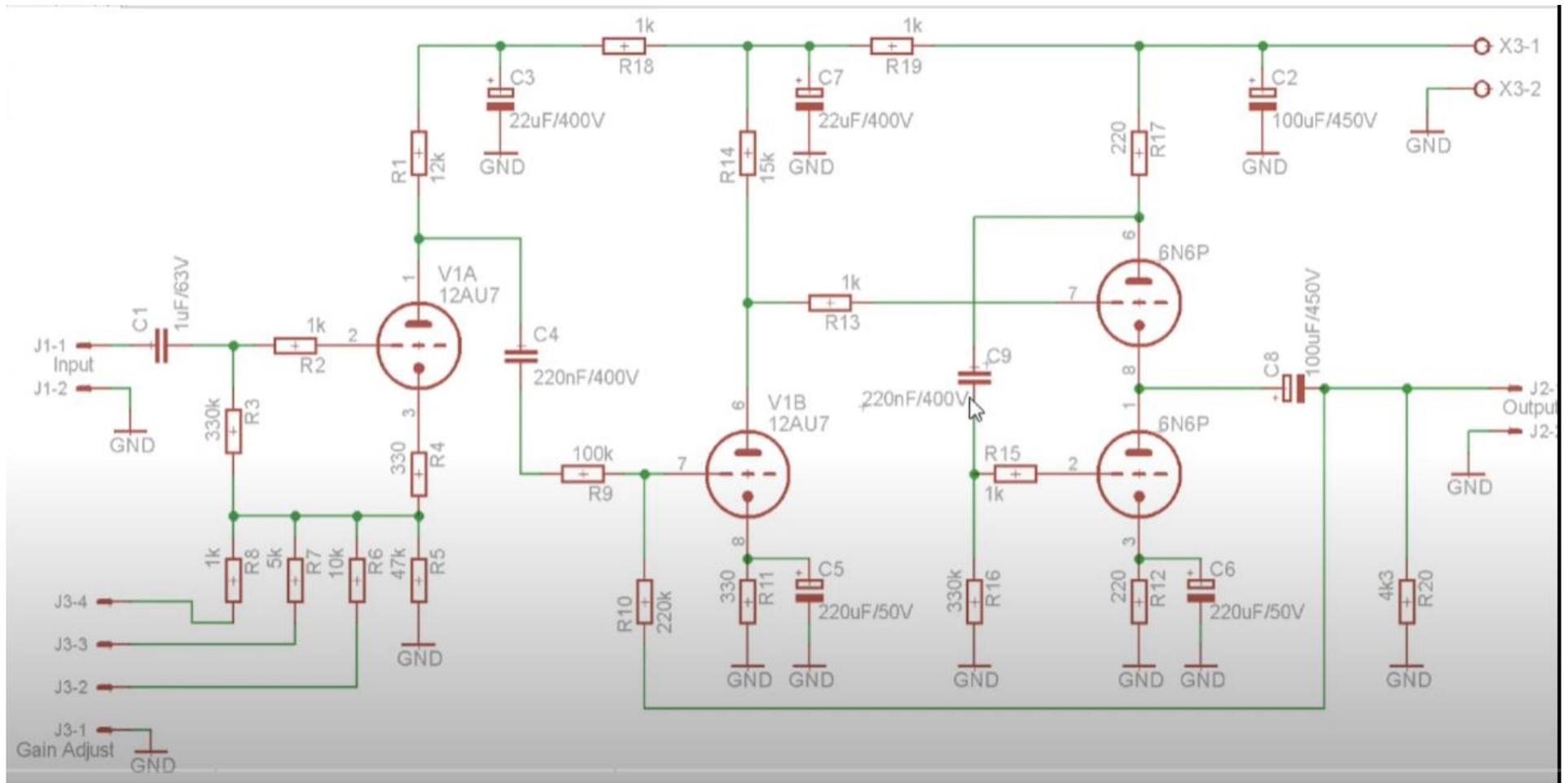


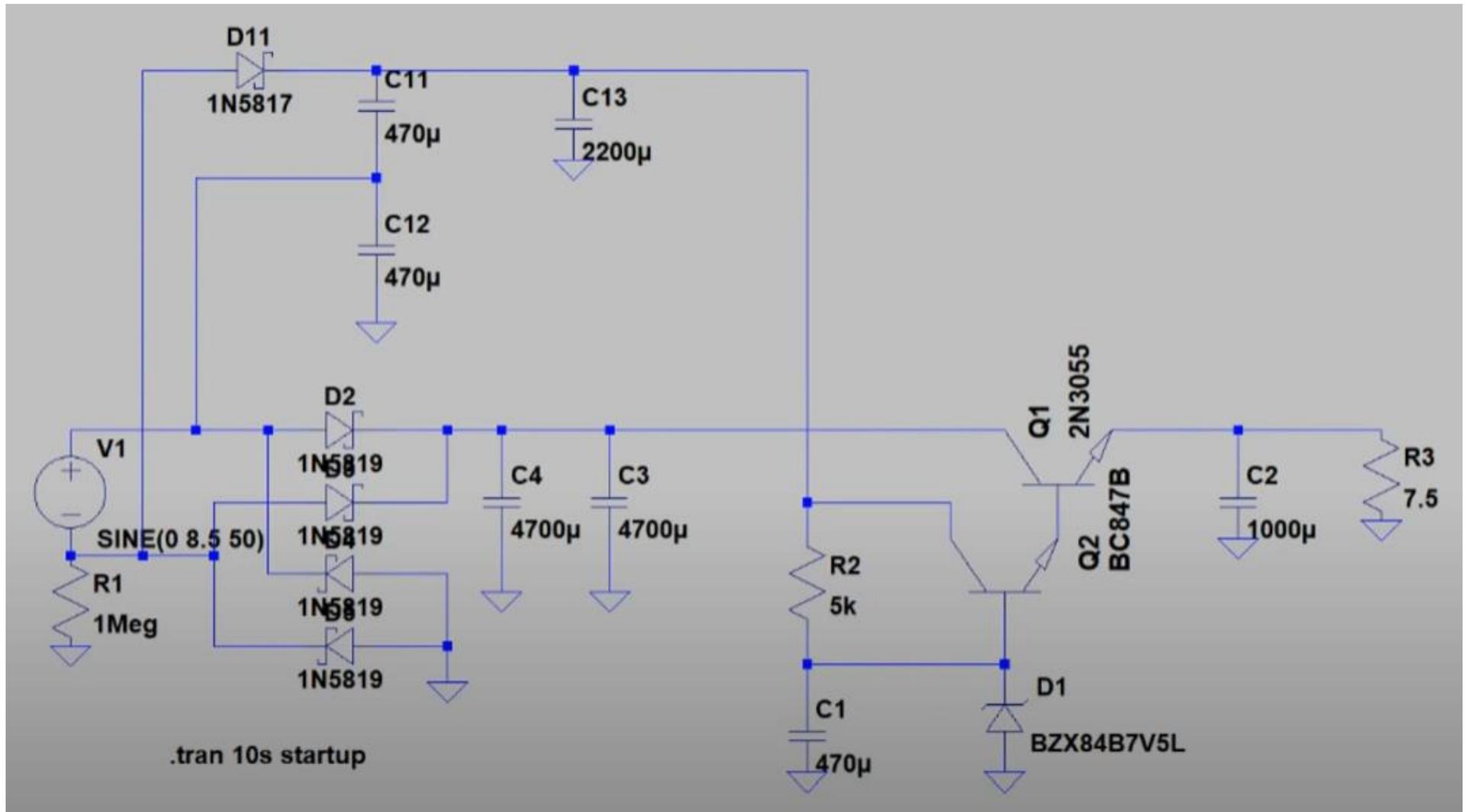
Vacuum-Tube Headphone Amplifier Circuit Schematic



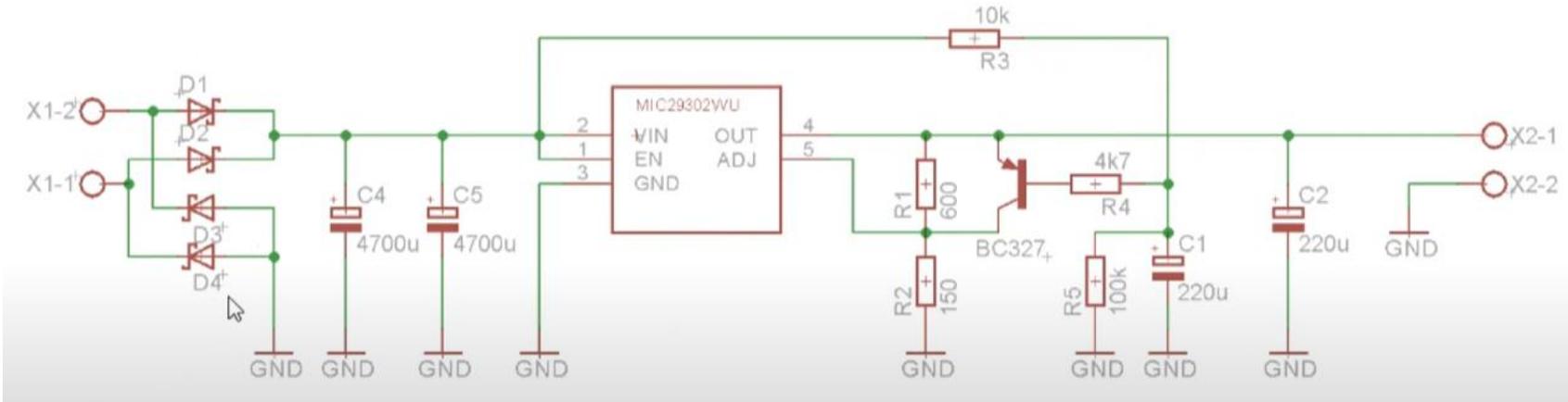
Note: C8 should be a 200uF/450V electrolytic capacitor and – NOT – a 100uf capacitor.

J3 is a “Gain Amount” switch.

POWER-SUPPLY SCHEMATIC



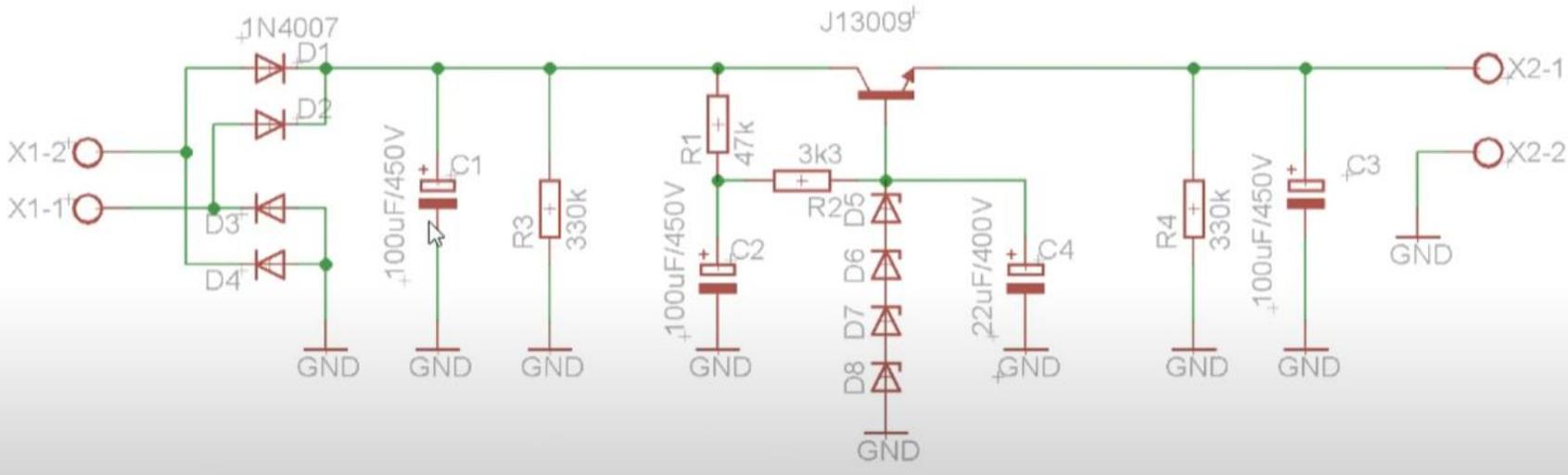
VACUUM-TUBE HEATER VOLTAGE REGULATOR & START-UP DELAY



1N5819 Schottky Diodes

Microchip MIC29302WU

VACUUM-TUBE HIGH-VOLTAGE REGULATOR CIRCUIT 5 – 10-Watt Heatsink on J13009



FJP13009TU

D6, D7, D8 = 75V Zener's, D5 = 56V Zener

Power Transformer:

Secondary-1: 6.3VAC @ 4-Amps

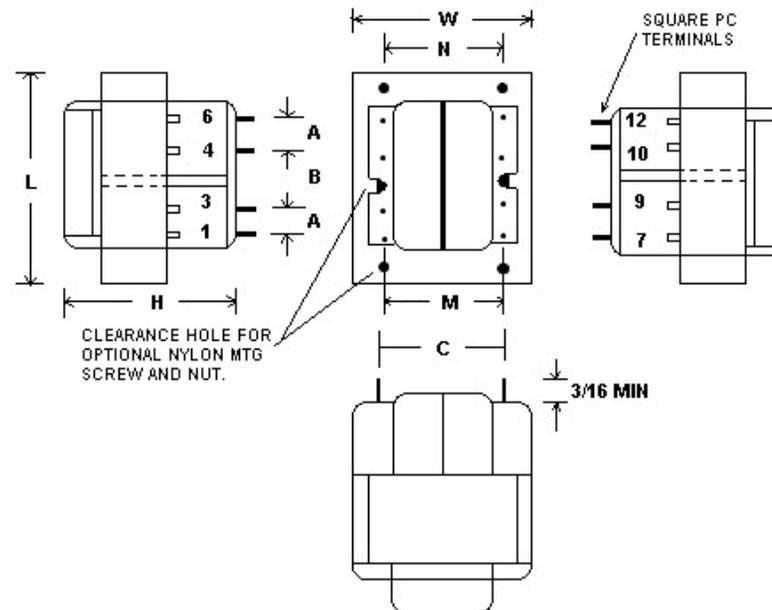
Secondary-2: 220VAC @ 100mA

Primary: Use an NTC thermistor having a resistance of 30-50 ohm at room temp and twice the current rating of what the amp draws.

<https://youtu.be/kahJtalwCog>

PowerVolt -- 14P-30-12 -- 6.3VAC @ 4.8A

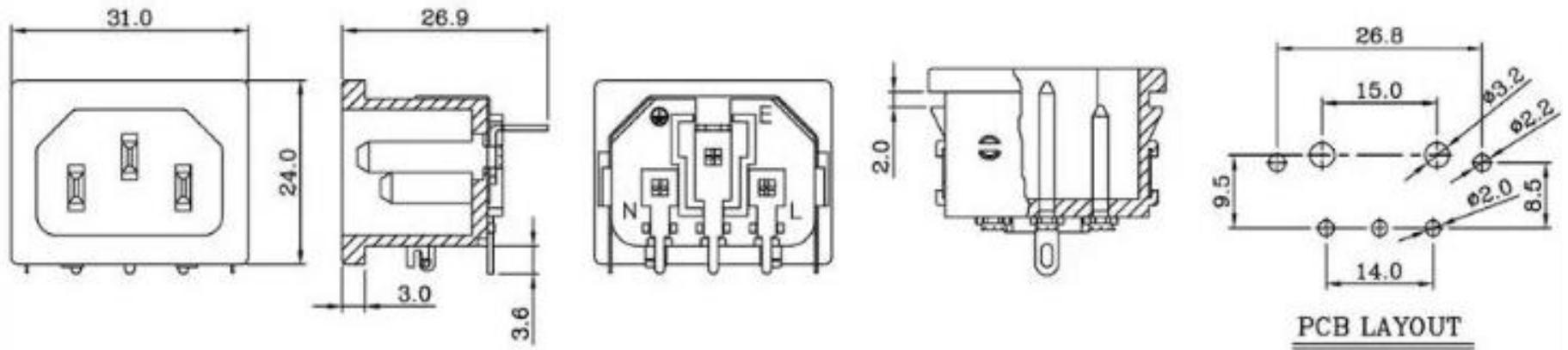
Mechanical Drawings



Mechanical Dimensions (In Inches)

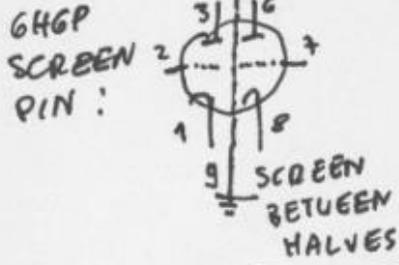
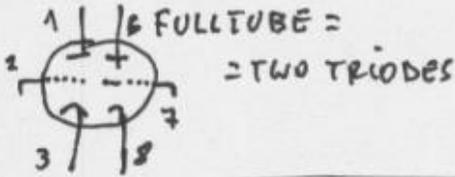
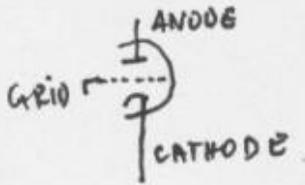
| VA (Size) | L | W | H | A | B | C | D | SQPin Dim. | M | N | P |
|-----------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|----|-----------------|-----------------|
| 30 | 2.62" 66.7mm | 2.18" 55.5mm | 1.56" 39.7mm | 0.550" 13.9mm | 0.275" 7.0mm | 1.680" 42.7mm | 0.275" 7.0mm | 0.045" 1.14mm | -- | 1.75" 44.5mm | 2.18" 55.4mm |

AC-INLET RIGHT-ANGLE PCB-MOUNT

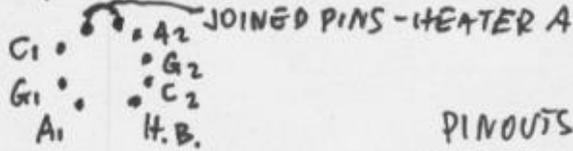


6N6 Vacuum-Tube Drawings

HALF TUBE = ONE TRIODE

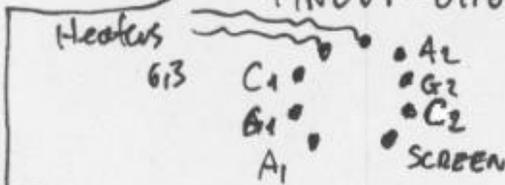


PINOUT - STANDARD

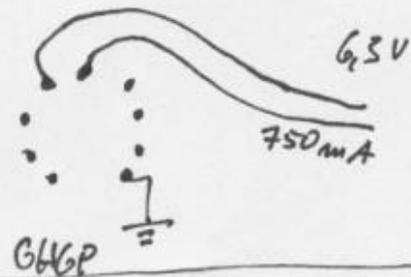
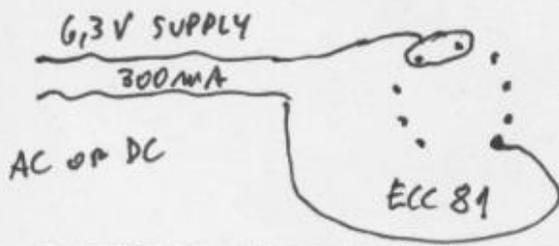


PINOUTS -
BOTTOM VIEW
OR PCB - TRACK
SIDE

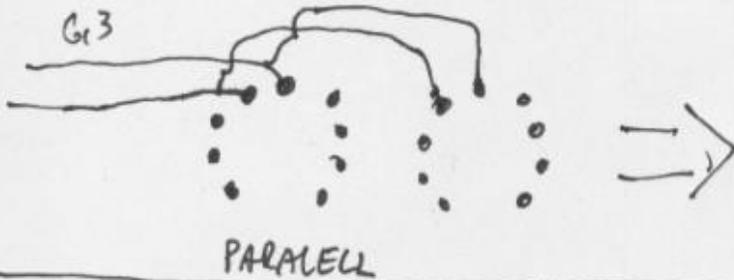
PINOUT - 6HG6



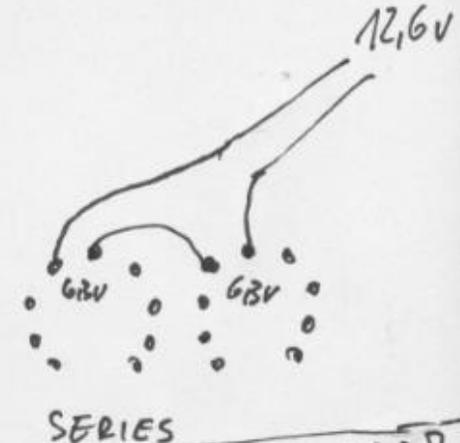
HEATER (FILAMENT) CONVERSION: - "ECC" TYPE TO 6HG6 TYPE



12.6V Heating conversion:



PARALLEL



SERIES

RECTIFICATION CONVERSION:

