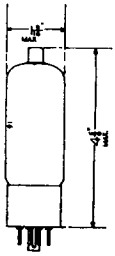
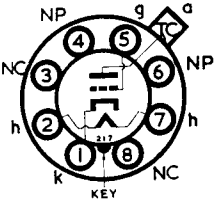


Industrial Type

TYPE **6BD4**
E.H.T. VOLTAGE REGULATOR



The Brimar type 6BD4 is a special triode for use as a shunt connected E.H.T. voltage regulator in television picture monitors, colour television receivers, etc.

RATINGS

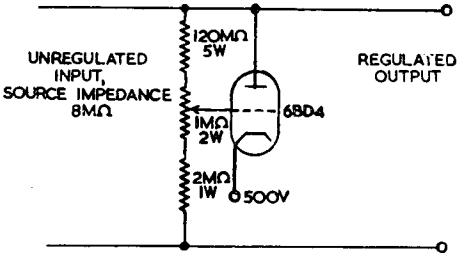
Heater Voltage	6.3 volts
Heater Current	0.6 amp.
Anode Voltage	20 kilovolts max.
Anode Current	1.5 mA max.
Anode Dissipation	20 watts max.
Negative D.C. Grid Voltage	—125 volts max.
Heater-Cathode Voltage	180 volts max.

TYPICAL OPERATING CONDITIONS

Unregulated Supply Voltage	29.8 kilovolts
Source Impedance	8 megohms
Cathode Reference Voltage	500 volts
Source Impedance	1 Kilohm

The Grid is fed from a resistive potentiometer chain, across the unregulated E.H.T. supply as shown in the drawing below:

D.C. Output Voltage, load current 0mA	20 kilovolts
D.C. Output Voltage, load current 1mA	19.7 kilovolts



Adequate cooling must be provided for the envelope, free circulation of air, therefore, being necessary.

Anode voltages in excess of 16kv approx. will result in the production of X-rays. Adequate protective shielding of the valve must, therefore, be provided to prevent prolonged exposure to the radiation and thereby avoid any possible harmful effects.

INTER-ELECTRODE CAPACITANCES

Input	3.8 pF
Output	0.04 pF
Anode to Grid	1 pF