



VACUUM HIGH VOLTAGE RECTIFIER

A directly heated Half-Wave High Voltage Rectifier, with thoriated tungsten filament.

PHYSICAL DETAILS.

Base	Medium UX-4.
Top Cap	Skirted Medium CT3.
Max. Overall Length	154 mm. (6 $\frac{1}{16}$ in.).
Max. Seated Height	140 mm. (5 $\frac{1}{2}$ in.).
Max. Diameter	45 mm. (1 $\frac{3}{4}$ in.).
Mounting Position	Any.

BASE CONNECTIONS.

Pin 1.—Filament.	Pin 3.—No Connection.
Pin 2.—No Connection.	Pin 4.—Filament.
TC.—Anode.	

HEATER.

Heater Voltage	2.5 volts.
Heater Current	5.0 amp.

RATINGS* (Absolute).

Max. P.I.V. (no load)	40 kV.
Max. P.I.V. (working)	36 kV.
Max. R.M.S. Input Voltage	15 kV.
Max. Peak Anode Current	175 mA.
Max. Peak Rectified Current	25 mA.
Max. Reservoir Capacitor	0.1 μ F.
Min. Supply Impedance	27 k Ω
Min. Switching Delay Time	5 secs.

OPERATING NOTES.

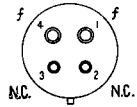
It is advisable to clean the bulb at regular intervals as accumulation of dust or dirt on the bulb may cause leakage paths and lead to failure of the valve.

X-RAY WARNING.

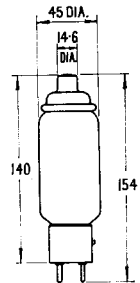
Operation at high anode voltage may result in the production of X-rays which could cause possible injury from prolonged exposure at close range unless adequate shielding is provided. Relatively simple shielding should prove adequate.

*The above ratings are "Absolute Maximum Ratings" and apply to operation at 50 c/s. with a capacitor input and delayed switching.

HR12



Base Connections
Underside View of Base



All Dimensions shown are in millimetres (max.).

