



HIGH VOLTAGE GRID CONTROLLED RECTIFIER

A vacuum half wave grid controlled rectifier with an indirectly heated oxide coated cathode.

PHYSICAL DETAILS.

Base	...	...	...	International Octal.
Top Cap	...	...	...	CT3.
Max. Overall Length	...	...	...	234 mm. (9 ⁷ / ₃₂ in.).
Max. Seated Height	...	...	...	220 mm. (8 ⁵ / ₁₆ in.).
Max. Diameter	...	...	...	64 mm. (2 ¹¹ / ₁₆ in.).
Mounting Position	...	...	...	Any.
Envelope	...	...	...	Glass.

BASE CONNECTIONS.

Pin 1—No Connection.	Pin 5—No Connection.
Pin 2—Heater.	Pin 6—No Pin.
Pin 3—No Connection.	Pin 7—Int. Connection.
Pin 4—Grid.	Pin 8—Heater, Cathode.
Top Cap—Anode.	

HEATER.

Heater Voltage	...	...	...	4.0 volts.
Heater Current	...	...	...	1.5 amp.

*RATINGS.

Max. P.I.V. (no load)	...	...	42 kV.
Max. P.I.V. (working)	...	...	35 kV.
Max. R.M.S. Input Voltage	...	...	15 kV.
Max. Peak Anode Current	...	...	50 mA.
Max. Rectified Current :			
at V _g = 0	...	...	8 mA.
= -50	...	...	4.5 mA.
= -90	...	...	2.8 mA.
= -100	...	...	1.5 mA.
Max. Reservoir Capacitor	...	...	0.1 μF.
Min. Supply Impedance	...	...	0.1 MΩ
†Min. Cathode Heating Delay	...	...	30 sec.

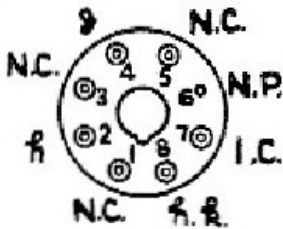
*The above ratings are "Absolute" and apply to operation at 50 c/s. with a capacitor input and delayed switching.

†This is the minimum period for cathode heating before application of anode voltage.

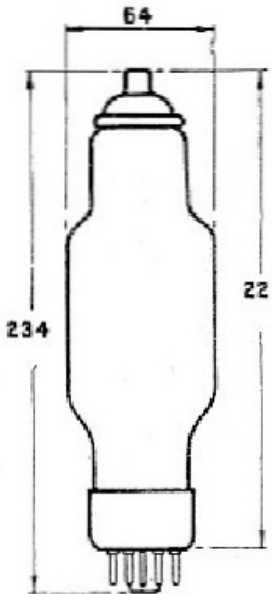
X-RAY WARNING. When operated at high anode voltages shielding may be required to protect against X-radiation which could cause possible injury from prolonged exposure.

HR9

T.C. a



Base Connections
Underside View
of Base



All dimensions
shown are in
millimetres
(max.).

