

FERRANTI THYRATRON

A gas and mercury vapour triode thyatron with a directly heated oxide coated cathode.

PHYSICAL DETAILS.

Base	...	Medium UX 4-pin Bayonet.
Top Cap	...	CT3.
Max. Overall Length	...	170 mm. ($6\frac{1}{2}$ in.).
Max. Seated Height	...	155 mm. ($6\frac{1}{2}$ in.).
Max. Diameter (Bulb)	...	53 mm. ($2\frac{1}{2}$ in.).
Mounting Position	...	Vertical, base down.

BASE CONNECTIONS.

Pin 1—Filament.	...	Pin 3—Grid.
Pin 2—No Connection.	...	Pin 4—Filament.
Top Cap—Anode.	...	

FILAMENT.

Filament Voltage	...	2.5 volts.
Filament Current (nominal)	...	7.0 amps.
Min. Filament Heating Time	...	15 seconds.

RATINGS (Absolute).

Max. Peak Anode Voltage :		
Forward	...	1250 volts.
Inverse	...	1250 volts.
Max. Peak Anode Current :		
Below 25 c/s.	...	3 amps.
25 c/s. and higher	...	6 amps.
Max. Mean Anode Current :		
Below 210 c/s.	...	1.5 amps.
210 to 400 c/s.	...	1.0 amp.
Max. Peak Grid Current	...	50 mA.
*Max. Mean Grid Current	...	10 mA.
Max. Negative Control Grid Voltage :		
Before Conduction	...	500 volts.
During Conduction	...	10 volts.
Max. Power Supply Frequency	...	400 c/s.
**Condensed Mercury Temperature Range	...	-40 to +80°C.
Min. Grid Circuit Resistance	...	1000 ohms.

ELECTRICAL CHARACTERISTICS.

Peak Voltage Drop	...	16	volts.
Approximate Control Characteristics :			
DC. Anode Voltage	...	25 500 1250	volts.
DC. Grid Voltage	...	0 -4	-6.5 volts.
Ionisation Time (approx.)	...	10	μsecs.
De-ionisation Time (approx.)	...	1000	μsecs.

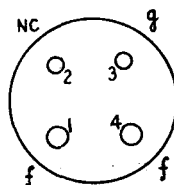
CAPACITANCES.

Grid to Anode	...	1.8 pF. (approx.)
Grid to Filament	...	5.8 pF. (approx.)

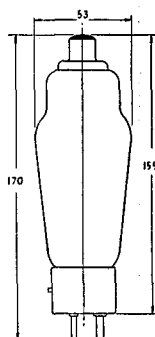
*Averaged over 5 seconds.

**Recommended condensed mercury temperature = 40°C.

3C23



Base
Connections
Underside View
of Base



All dimensions
shown are in
millimetres.
(max.).



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CONTROL CHARACTERISTIC

