

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	-6.5 volts.
Ionisation Time (approx.)	10	μsecs.
De-ionisation Time (approx.)	1000	μsecs.

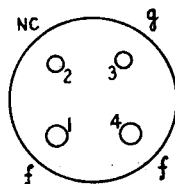
CAPACITANCES.

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

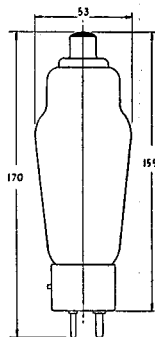
*Averaged over 5 seconds.

**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

