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. (6¾ in.).
Max. Seated Height ...... 155 mm. (6½ in.).
Max. Diameter (Bulb) ... 53 mm. (2½ 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° C to +80°C.

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.
Irritation Time (approx.) .... 10 µsecs.
De-irritation 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.

FERRANTI LIMITED, GEM MILL, CHADDERTON, OLDHAM, LANCs.