FERRANTI **TELEVISION MONITOR TUBE**

A 14in, diagonal Rectangular Tube with a metal backed screen and external conductive coating. Designed for use in Television Monitoring Equipment.

FOCUS Magnetic. DEFLECTION ... Magnetic. SCREEN Metal Backed. ... Phosphor ... Type 'T'. White. Fluorescence Persistence Short.

For further details, refer to Screen Type 'T' phosphor characteristics at the front of this section of the handbook. This tube can also be supplied with other screen phosphors.

PHYSICAL DETAILS.

BI2A (Duodecal). CT8 (Cavity Type). Base 457 mm. 37 mm. For other dimensions see drawing. Mounting Position Any.

This tube has an external conductive coating which may be used for E.H.T. smoothing.

BASE CONNECTIONS.

Pin 7—No Connection. Pin 8—No Pin. Pin 9—No Pin. Pin 1-Heater. Pin 2—Grid. Pin 3—No Pin. Pin 10—1st Anode. Pin 11—Cathode. Pin 12—Heater. Pin 4—No Pin. Pin 5-No Pin. Pin 6—No Connection. Pin I2—H Side Contact—2nd Anode.

HEATER.

*Heater Voltage Heater Current 6.3 volts. 0.3 amp.

RATINGS

Max. A₁ Voltage ... †Max. A₂ Voltage ... Min. A₁ Voltage Min. A₂ Voltage 500 volts. ... 16 kV. 200 volts. 8 kV. Max. V_{h-k} ... 200 volts. Max. Rg-k †Max. Rh-k 1 ·5 MΩ ... i 0 MΩ ... Max. A: Supply Impedance 1.5 MO

TYPICAL OPERATION.

... 1st Anode Voltage 300 volts. 2nd and 4th Anode Voltage ... 14 kV. §Vg for visual cut off ... -30 to -70 volts. See Note ** ← Focus ...

CAPACITANCES.

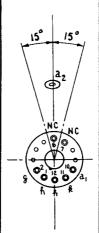
... <8 bF. C_{k-all} <8 pF. Cg-all Ca-ext. coating 1100 pF. (approx.).

*When used for series operation, the surge heater voltage should not exceed 9.5 volts r.m.s. and a current limiting device should be incorporated in the circuit to limit switching surge. †The product of Va2 and la2 must not exceed 6 watts average value for the whole screen.

When the heater supply is from a separate transformer. When the heater is in a series chain or earthed the 50 c/s. impedance between earth and cathode (Z_k) is $100k\Omega$ (max).

**The recommended centre of the magnetic length of the focus unit should be approx. 100 mm. from the Reference Line. §The grid should never be positive with respect to the cathode, except during the period immediately after switching off, when it may be allowed to rise to + I volt.

14/04TB

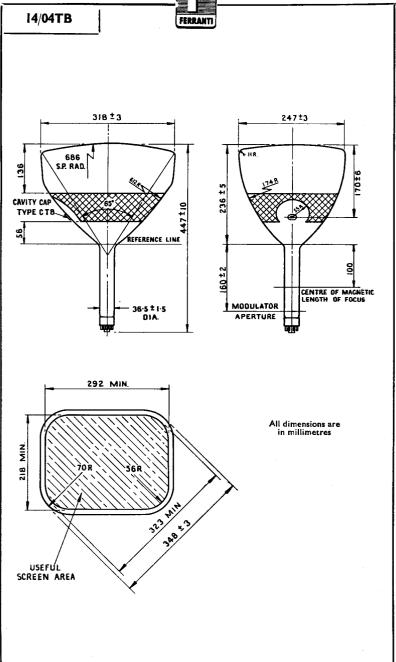


Base Connections Underside View of Base



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