FERRANTI RADAR TUBES

12in. diameter Radar Display Tubes with metal backed screens, magnetic deflection and low voltage electrostatic focus.

FOCUS Low Voltage. Electrostatic. DEFLECTION ... Magnetic.

SCREEN.

12/03HB ‡Type 'H' Orange 12/03JB Type 'J' Blue Phosphor Fluorescence Afterglow Orange Yellow Persistence ... ••• very long long.

For further details, refer to the relevant phosphor characteristics at the front of this section of the handbook.

Both Types have metal backed screens.

PHYSICAL DETAILS.

BI2A (Duodecal). CT8 Cavity Type. Base ... Anode Cap Max. Overall Length 485 mm. ••• Mounting Position Any

For other dimensions see drawing overleaf. These tubes have 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 6-3rd Anode. Side Contact-2nd Anode, 4th Anode.

HEATER.

*Heater Voltage Heater Current 6 ·3 [volts. 0 · 3 amp.

RATINGS

Max. A₁ Voltage ...
Max. A₂ + A₄ voltage ...
Max. Pos. A₃ Voltage ...
Max. Neg. A₃ voltage ... 500 volts. 15 kV. ... +500 volts. ... -500 volts. ... Min. A₁ voltage ... 200 volts. ••• ... Min. A₂ + A₄ voltage ... Max. V_{h-k} ... Max. R_{g-k} ... 8 kV. 200 volts. I ·5 MΩ ... Max. Rg-k Max. Rh-k I •0 MΩ ...

TYPICAL OPERATION.

6·3 volts. Heater Voltage ... ••• 300 volts. 2nd and 4th Anode voltage ... 13rd Anode voltage for focus ... 2nd Anode voltage for focus ... 12 kV. -300 to +300 volts.

CAPACITANCES.

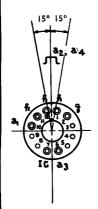
<8 pF. C_{k-all} C_{g-ail} ---Ca-ext. coating ... 1200 pF, approx.

‡This screen material is liable to burn if operated with a spot which is stationary or slow moving. The tube should not be operated under such conditions, even at low beam current.

*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 point of optimum focus lies between these values.

12/03 HB

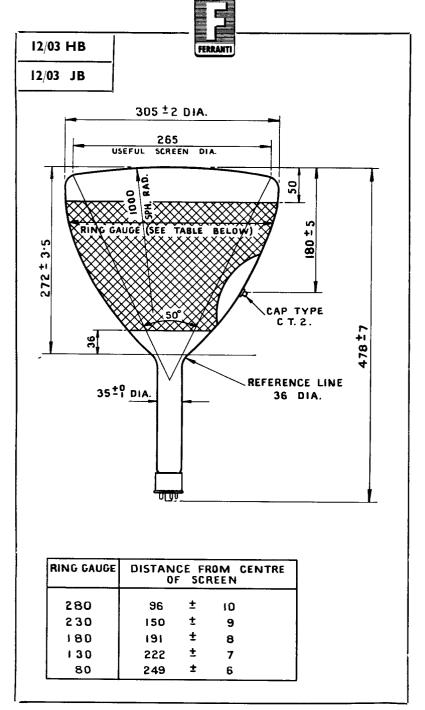
12/03 JB



Base Connections Underside View of Base



issue 1. Aug., 1957. -30 to -70 volts.



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