

RADAR TUBES

5in. diameter Display Tubes with metal backed screens, magnetic deflection and Low Voltage Electrostatic focus, suitable for small radar installations.

Low Voltage Electrostatic

DEFLECTION Magnetic-Angle 53°

SCREENS

FOCUS

5/03HM 5/03JM 5/03LM *Phosphor Type 'H' ij Fluorescence Orange Blue Orange Yellow Orange Afterglow Orange Persistence Very long long long

All Types have metal backed screens.

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

PHYSICAL DETAILS.

Anode Cap B12A (Duodecal).

Anode Cap CT7. Recessed Ball Type.

Max. Overall Length ... 308 mm.

Min. Useful Screen Area Mounting Position ... Any except vertical screen

down.

For other dimensions see drawing.

These tubes can also be supplied with an external conductive coating in which case the Type Nos. are respectively 5/03HB, 5/03JB and 5/03LB.

BASE CONNECTIONS.

Pin 7—No Connection. Pin 8—No Pin. Pin 9—No Pin. Pin I--Heater Pin 2--Grid Pin 3—No Pin Pin 4—No Pin. Pin 10—1st Anode. Pin 11—Cathode. Pin 12—Heater. Pin 5—No Pin. Pin 6—3rd Anode. Side Conatct-2nd Anode, 4th Anode,

HEATER. Heater Voltage

Heater Current 0·3 amp. RATINGS. Max. A₁ Voltage Min. A₁ Voltage 500 volts. 200 volts. 15 kV. Max. A₂ + A₄ voltage Min. A₂ + A₄ Voltage Max. Pos. A₃ Voltage 8 kV. ... + 500 volts. Max. Neg. A₃ Voltage... -500 volts. -Max. V_{h-k} (Heater positive) ... Max. V_{h-k} (Heater negative)... 200 volts. 200 volts. ...

Max. Rg-k Max. Rh-k ... TYPICAL OPERATION

1st Anode Voltage Ist Anode Voltage ... 2nd + 4th Anode Voltage ... 3rd Anode Voltage for focus... 300 volts. *** 12 kV. -300 to + 300 volts. §Vg for visual cut off —30 to —70 volts.

CAPACITANCES.

C_{k-all} ... <8 pF. Cg-all ... <8 pF.

*Phosphors Type 'H' and 'L' are liable to burn if operated with a stationary or slow moving spot, even at low values of beam current.

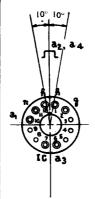
†Optimum focus lies between these values.

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.

5/03 HM

5/03 JM

5/03 LM



Base Connections

Underside View of Base



6.3 volts.

I-5 MΩ I-0 MΩ

