

FERRANTI RADAR TUBE

A miniaturised Radar Display Tube with a $8\frac{1}{2}$ in. diagonal rectangular Screen which is metal backed. The deflection angle is 90° and electrostatic focus is at low voltage.

FOCUS Low voltage Electrostatic.

DEFLECTION Magnetic.

SCREEN.

Phosphor*	Type H.	Type L.
Fluorescence	Orange.	Orange.
Afterglow	Orange.	Orange.
Persistence	Very long.	Long.

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

PHYSICAL DETAILS.

Base	...	Noval (B9A)†
Anode Cap	...	CT8 Cavity Type.
Max. Overall Length	...	215 mm.
Mounting Position	...	Any.

For other dimensions see outline drawing overleaf.

BASE CONNECTIONS.

Pin 1—Cathode.	Pin 6—2nd Anode (focus).
Pin 2—N.C.	Pin 7—I.C.
Pin 3—Grid.	Pin 8—N.C.
Pin 4—Heater.	Pin 9—N.C.
Pin 5—Heater.	Side Contact—1st & 3rd Anodes

HEATER.

Heater Voltage	...	6.3 volts.
Heater Current	...	0.3 amps.

RATING.

Max. $A_1 + A_3$ voltage	...	15 kV.
Max. Pos. A_2 voltage	...	+400 volts.
Max. Neg. A_2 voltage	...	-200 volts.
Min. $A_1 + A_3$ voltage	...	8 kV.
Max. V_{h-k}	...	200 volts.
Max. R_{g-k}	...	0.5 M Ω
Max. R_{h-k}	...	1.0 M Ω

TYPICAL OPERATION.

Heater Voltage	...	6.3 volts.
1st and 3rd Anode Voltage	...	12 kV.
2nd anode voltage for focus	...	-100 to +200 volts.
V_g for visual cut-off	...	-50 to -100.

CAPACITANCE.

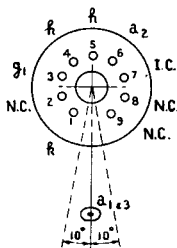
C_{k-all}	...	<8 pF.
C_{g-all}	...	<8 pF.

*These phosphors are 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. See list of alternative phosphors for this application.

†Note that the centre of the valve holder should be drilled out to $\frac{1}{4}$ inch to accommodate the protruding pumping*stem.

8/52 HM

8/52 LM



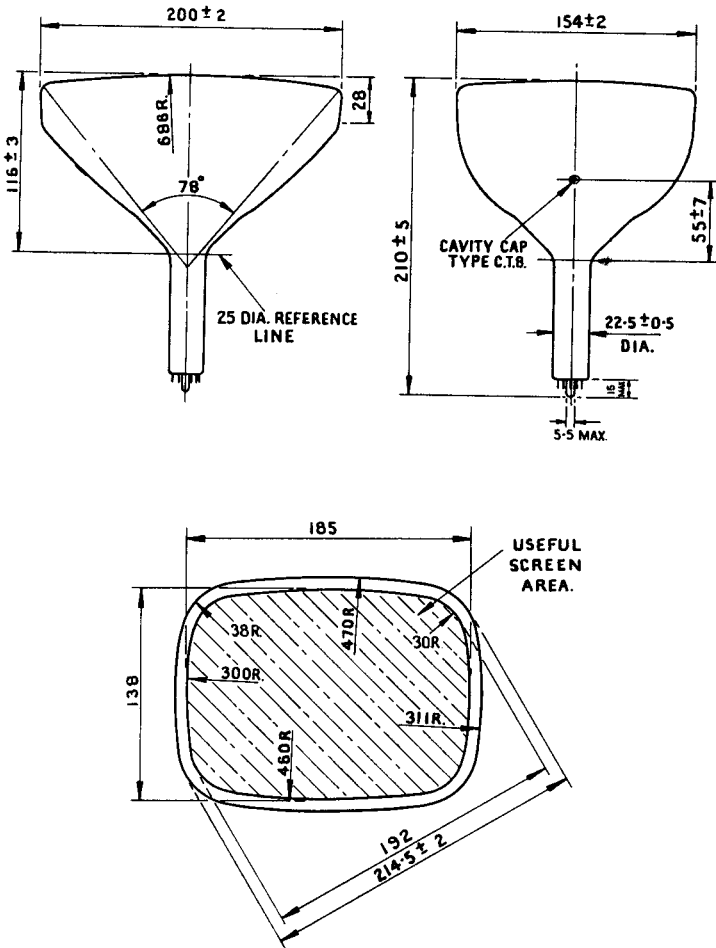
**Base
Connections
Underside View
of Base**





8/52 HM

8/52 LM



Dimensions in mm.