



RADAR TUBES

High Resolution 8½ in. Rectangular Radar Display Tubes.

FOCUS	...	...	...	Magnetic.
DEFLECTION	...	...	...	Magnetic.
Phosphor	...	8B/08L2B*	8B/08VB	8B/08ZB
Fluorescence	...	Orange	Yellow	Orange
Afterglow	...	Orange	Yellow	Orange
Persistence	...	Long	Short	Short

Refer to phosphor characteristics at the front of this section of the Handbook.

All types have metal backed screens.

PHYSICAL DETAILS.

Base	...	...	...	B12A (Duodecal).
Anode Cap	...	...	...	CT.2 (9.25 mm. dia.).
Max. overall length	...	...	...	588 ± 7 mm.
Neck diameter	...	...	...	35 mm. nominal.

For other dimensions see outline drawing overleaf.

These tubes have an external conductive coating which may be used for E.H.T. smoothing.

BASE CONNECTIONS.

Pin 1—Heater.	Pin 7—Not Connected.
Pin 2—Grid.	Pin 8—No pin.
Pin 3—No pin.	Pin 9—No pin.
Pin 4—No pin.	Pin 10—1st anode.
Pin 5—No pin.	Pin 11—Cathode.
Pin 6—Not connected.	Pin 12—Heater.

Side cap—2nd anode.

HEATER.

Heater Voltage.	...	...	...	6.3 volts.
Heater Current	...	...	...	0.3 amp.

RATINGS.

Max. 1st Anode voltage	...	...	...	600 volts.
Max. 2nd Anode voltage	...	...	...	15.0 kV.
Min. 1st Anode voltage	...	...	...	250 volts.
Min. 2nd Anode voltage	...	...	...	9.0 kV.
Max. V _h -k	...	...	...	200 volts.
Max. R _h -k	...	...	...	1.0 MΩ
Max. R _g -k	...	...	...	1.5 MΩ

CAPACITANCES.

C _k -all	...	...	...	<8.0 pF.
C _g -all	...	...	...	<8.0 pF.

TYPICAL OPERATING CONDITIONS.

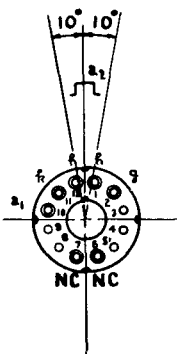
1st Anode voltage	...	...	...	300 volts.
2nd Anode voltage	...	...	...	15.0 kV.
V _g for visual cut off	...	...	...	-30 to -90 volts.
Av. mod. drive for 50 μA. beam current	...	...	...	20 volts.

The position of the centre of the air gap in the focus coil is approximately 70 mm's. from the plane of the modulator face.

8B/08L2B

8B/08VB

8B/08ZB



Base
Connections
Underside View
of Base

Tentative
Issue 1,
May, 1961

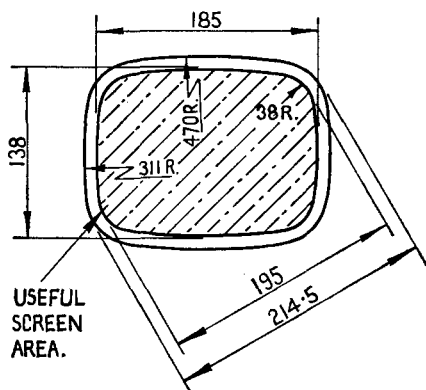
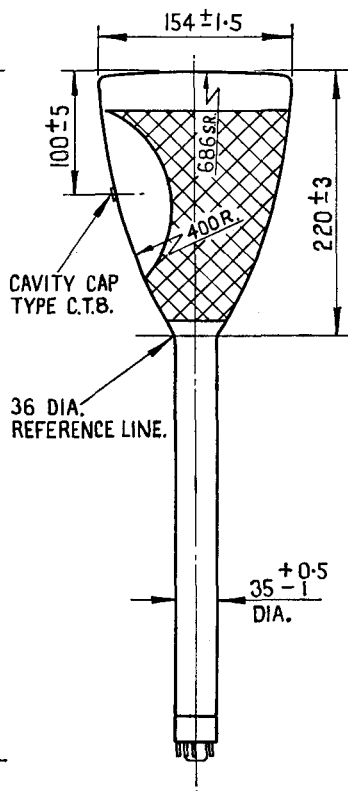
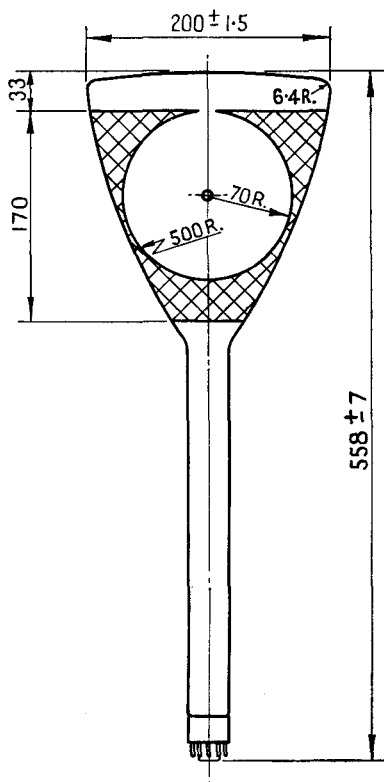
*The screen of this tube is liable to burn if operated with a spot which is stationary or slow moving, even at low values of beam current.



8B/08L2B

8B/08VB

8B/08ZB



Dimensions are in millimetres.