

FERRANTI RADAR TUBE

A 10in. diameter Radar Display Tube with metal backed screen
magnetic deflection, and low voltage electrostatic focus.

FOCUS Low Voltage Electrostatic

DEFLECTION Magnetic

SCREEN.

Phosphor Type	...	...	'J'
Fluorescence	...	...	Blue
Afterglow	...	...	Yellow
Persistence	...	...	Long

For further details, refer to the Type 'J' Phosphor characteristics at the front of this section of the handbook.

PHYSICAL DETAILS.

Base	...	...	BI2A (Duodecal).
Anode Cap	...	...	CT8 Cavity Type.
Max. Overall Length	...	...	440 mm.
Nom. Neck Diameter	...	...	37mm.
For other dimensions, see drawing.			
Mounting Position	...	...	Any.

BASE CONNECTIONS.

Pin 1—Heater.	Pin 7—No Connection.
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—3rd Anode.	Pin 12—Heater.
Side Contact—2nd Anode, 4th Anode.	

HEATER.

Heater Voltage	...	...	6.3 volts.
*Heater Current	...	...	0.3 or 0.6 amp.

RATINGS.

Max. A ₁ Voltage	...	...	600 volts
Max. A ₂ + A ₄ Voltage	...	...	13.2 kV.
Max. Pos. A ₃ Voltage	...	...	+1000 volts.
Max. Neg. A ₃ Voltage	...	...	-500 volts.
Min. A ₁ Voltage	...	...	200 volts.
Min. A ₂ + A ₄ Voltage	...	...	7 kV.
Max. V _{h-k}	...	...	±200 volts.
Max. R _{g-k}	...	...	1.5 MΩ
Max. R _{h-k}	...	...	1.0 MΩ

TYPICAL OPERATION.

Heater Voltage	...	...	6.3 volts.
1st Anode Voltage	...	...	300 volts.
2nd + 4th Anode Voltage	...	...	10 kV.
†3rd Anode Voltage for focus	...	...	0 to +300 volts.
V _g for visual cut off	...	...	-33 to -77 volts.

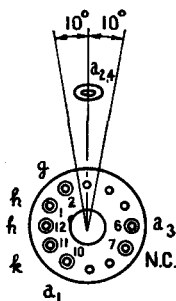
CAPACITANCES.

C _{k-all}	...	...	<8 pF.
C _{g-all}	...	...	<8 pF.

*This tube is normally supplied with a 6.3 volt 0.3 amp. heater.
On request a tube with a 0.6 amp. heater will be supplied
(direct replacement for tubes of American manufacture).

†The point of optimum focus lies between these values.

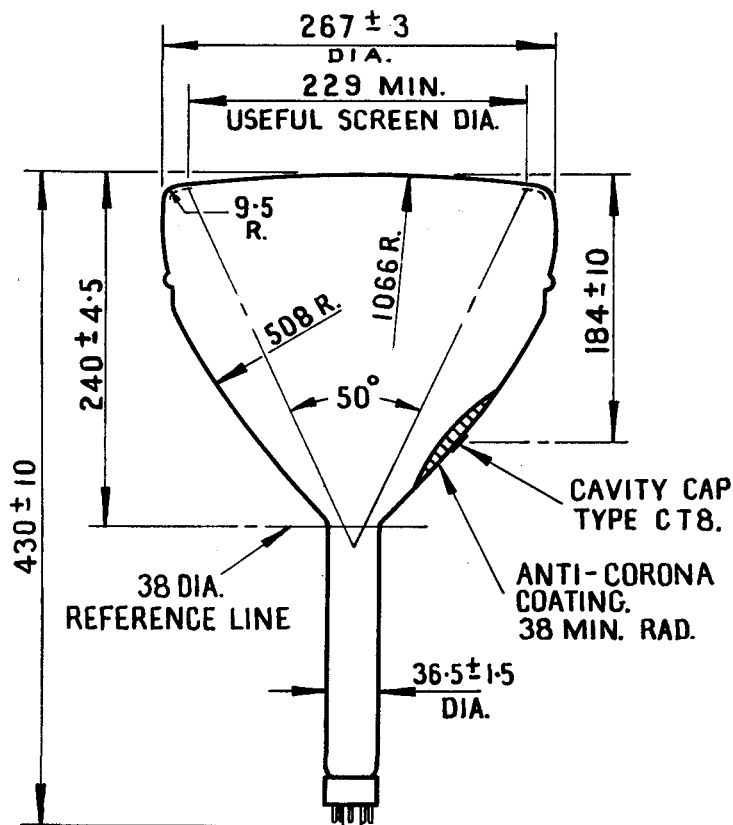
10WP7



Base
Connections
Underside View
of Base



10WP7



DIMENSIONS IN MILLIMETRES