

# FERRANTI

## TELEVISION MONITOR TUBE

A 10in. diameter Tube with a metal backed screen and External conductive coating. Designed for use in Television Monitoring Equipment.

FOCUS	... ..	Magnetic.
DEFLECTION	... ..	Magnetic.
Deflection Angle	... ..	50°.
SCREEN	... ..	Metal Backed.
Phosphor	... ..	Type 'T'. —Silver activated.
Fluorescence	... ..	White.
Persistence	... ..	Short.

For further details, refer to Screen Type 'T' phosphor characteristics at the front of this section of the handbook. This tube can also be supplied with other screen phosphors.

### PHYSICAL DETAILS.

Base	... ..	B12A (Duodecal).
Anode Cap	... ..	CT8 (Cavity Type).
Max. Overall Length	... ..	456 mm.
Nom. Neck Diameter	... ..	37 mm.
For other dimensions	see drawing.	
Mounting Position	... ..	Any.

This tube has an external conductive coating which may be used for E.H.T. smoothing

### 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—No Connection.	Pin 12—Heater.
Side Contact—2nd Anode.	

### HEATER.

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

### RATINGS.

Max. A <sub>1</sub> Voltage	... ..	410 volts.
Max. A <sub>2</sub> Voltage	... ..	12 kV.
Min. A <sub>1</sub> Voltage	... ..	150 volts.
Min. A <sub>2</sub> Voltage	... ..	8 kV.
Max. V <sub>h-k</sub>	... ..	200 volts.
Max. R <sub>g-k</sub>	... ..	1.5 MΩ
Max. R <sub>h-k</sub>	... ..	1.0 MΩ
Max. A <sub>1</sub> Supply Impedance	... ..	1.5 MΩ

### TYPICAL OPERATION.

1st Anode Voltage	... ..	250 volts.
2nd and 4th Anode Voltage	... ..	10 kV.
V <sub>g</sub> for visual cut off	... ..	-27 to -63 volts.
Focus	... ..	See Note **

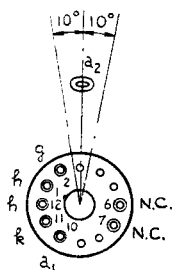
### CAPACITANCES.

C <sub>k-all</sub>	... ..	<8 pF.
C <sub>g-all</sub>	... ..	<8 pF.
C <sub>a-ext. coating</sub>	... ..	{ 2500 pF. max. 500 pF. min.

\*This Tube is normally supplied with a 6.3 volt 0.3 amp. heater. For direct replacement of Tubes of American origin a Tube with 6.3 volt 0.6 amp. heater should be requested.

\*\*The recommended centre of the magnetic length of the focus unit should be approx. 80 mm. from the Reference Line.

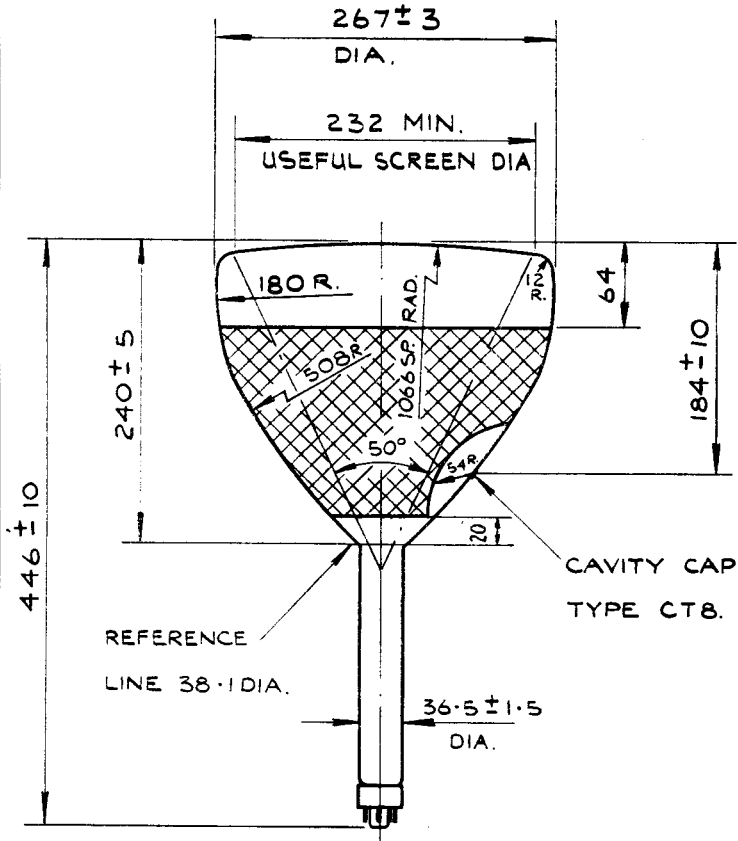
10FP4A



Base Connections  
Side View of Base



10FP4A



DIMENSIONS IN MILLIMETERS