

# FERRANTI

## TELEVISION MONITOR TUBE

An 8in. diagonal Rectangular Tube with metal backed screen having very high definition.

|              |     |     |     |               |
|--------------|-----|-----|-----|---------------|
| FOCUS        | ... | ... | ... | Magnetic.     |
| DEFLECTION   | ... | ... | ... | Magnetic—90°  |
| SCREEN       | ... | ... | ... | Metal Backed. |
| Phosphor     | ... | ... | ... | Type 'T'      |
| Fluorescence | ... | ... | ... | White.        |
| Persistence  | ... | ... | ... | Short.        |

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

### PHYSICAL DETAILS.

|                     |     |     |     |                    |
|---------------------|-----|-----|-----|--------------------|
| Base                | ... | ... | ... | B12A—Duodecal.     |
| Anode Cap           | ... | ... | ... | CT8 (Cavity Type). |
| Max. Overall Length | ... | ... | ... | 308 mm.            |
| Neck Diameter       | ... | ... | ... | 37 mm. (nominal).  |

For other dimensions see drawing.

### 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 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         | ... | ... | 8.0 kV.    |
| Max. $V_{h-k}$ Heater Negative | ... | ... | 200 volts. |
| Max. $V_{h-k}$ Heater Positive | ... | ... | 150 volts. |
| Max. $R_{h-k}$                 | ... | ... | 1.0 MΩ     |
| Max. $R_{g-k}$                 | ... | ... | 1.5 MΩ     |

### CAPACITANCES.

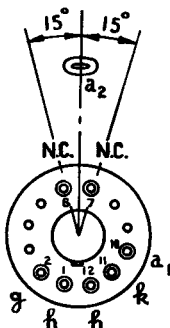
|             |     |     |     |          |
|-------------|-----|-----|-----|----------|
| $C_{k-all}$ | ... | ... | ... | <8.0 pF. |
| $C_{g-all}$ | ... | ... | ... | <8.0 pF. |

### TYPICAL OPERATING CONDITIONS.

|                                        |     |     |                                                          |
|----------------------------------------|-----|-----|----------------------------------------------------------|
| 1st Anode Voltage                      | ... | ... | 300 volts.                                               |
| 2nd Anode Voltage                      | ... | ... | 12 kV.                                                   |
| Vg for visual cut off                  | ... | ... | -30 to -70 volts.                                        |
| *Av. Grid Drive for 100μA beam current | ... | ... | 25 volts.                                                |
| Focus Coil Recommended Position:       | ... | ... | Magnetic Centre approx. 100 mm. from the reference line. |

\*The grid should never be positive with respect to the cathode.

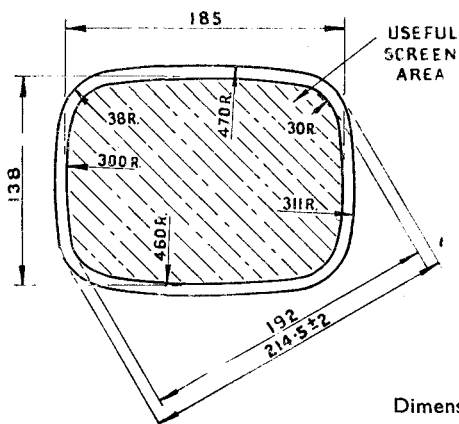
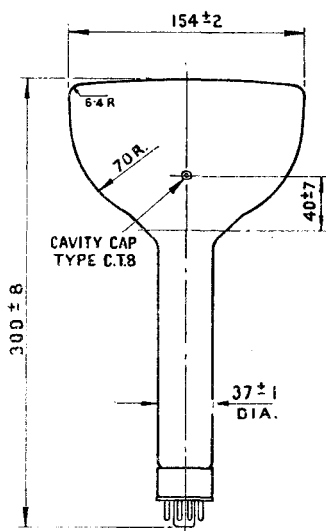
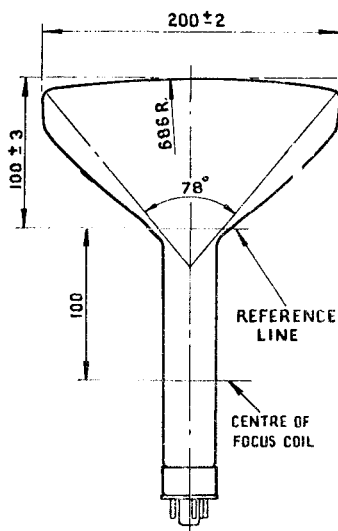
8/04TM



**Base  
Connections  
Underside View  
of Base**



8/04TM



Dimensions in millimetres