

FERRANTI

TELEVISION MONITOR TUBE

A high resolution Television Studio Monitor Tube with an 8½ in. diagonal Rectangular Screen. The screen is metal backed and low voltage electrostatic focus is provided.

FOCUS	Low Voltage Electrostatic.
DEFLECTION	Magnetic—90°
SCREEN	Metal Backed.
Phosphor	Type 'T'.
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	293 mm.
Neck Diameter	37 mm. (nominal).
Mounting Position	Any.

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—3rd Anode.	Pin 12—Heater.
Side Contact—2nd Anode + 4th Anode.	

HEATER.

Heater Voltage	6.3 volts.
Heater Current	0.3 amp.

RATINGS.

Max. A ₁ Voltage	500 volts.
Max. A ₂ + A ₄ voltage	15 kV.
Max. Pos. A ₃ voltage	+500 volts.
Max. Neg. A ₃ voltage	-500 volts.
Min. A ₁ voltage	200 volts.
Min. A ₂ + A ₄ voltage	8 kV.
Max. V _{h-k} (Heater positive)	150 volts.
Max. V _{h-k} (Heater negative)	200 volts.
Max. R _{g-k}	1.5 MΩ
Max. R _{h-k}	1.0 MΩ

TYPICAL OPERATION AND CHARACTERISTICS.

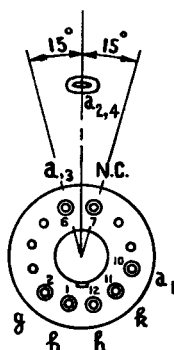
Heater Voltage	6.3 volts.
1st Anode Voltage	300 volts.
2nd and 4th Anode voltage	12 kV.
3rd Anode voltage	
for focus	-300 to + 300 volts.
V _g for visual cut off	-30 to -70 volts.
†Av. Grid Drive for I _a = 100 μA	25 volts.

CAPACITANCES.

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

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

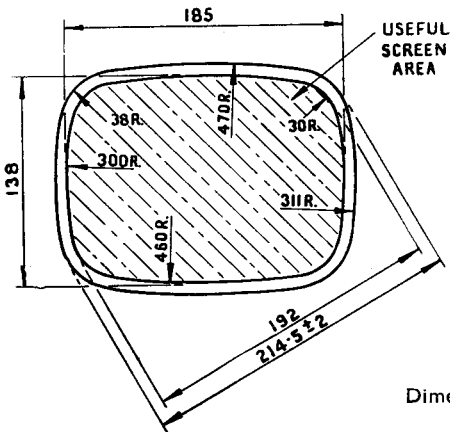
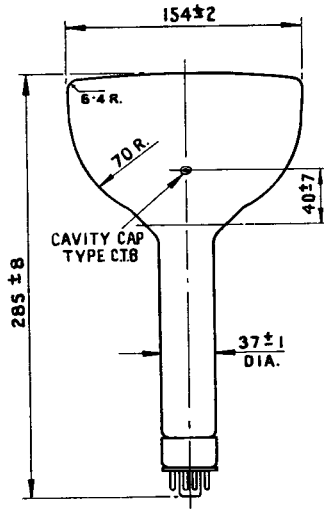
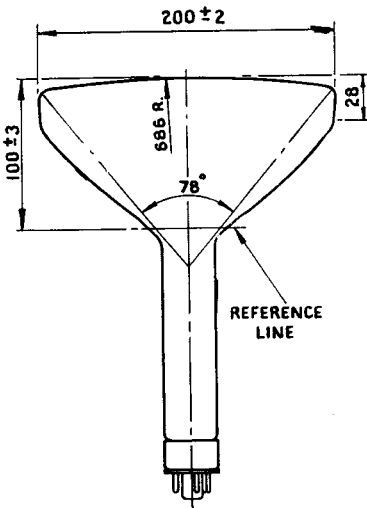
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**Base
Connections
Underside View
of Base**



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Dimensions in millimetres