

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.

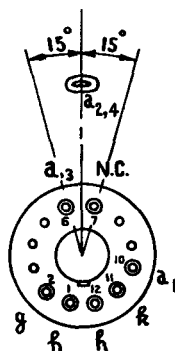
Heater Voltage	...	...	...	6.3 volts.
1st Anode Voltage	...	...	...	300 volts.
2nd and 4th Anode voltage	...	...	...	12 kV.
3rd Anode voltage	...	...	...	for focus
	...	...	...	-300 to + 300 volts.
V _g for visual cut off	...	...	...	-30 to -70 volts.
†Av. Grid Drive for I _a =100 μA	...	...	...	25 volts.

CAPACITANCES.

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

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

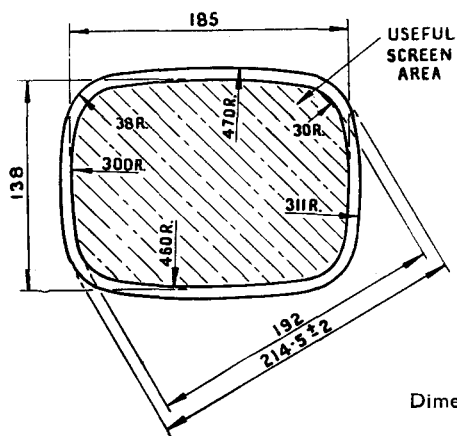
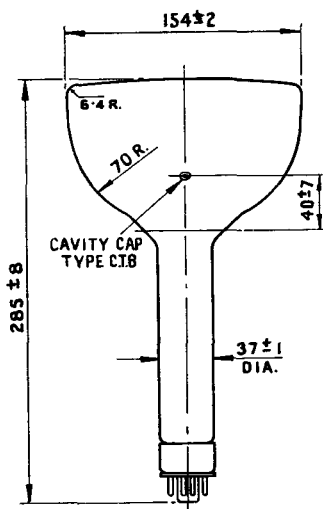
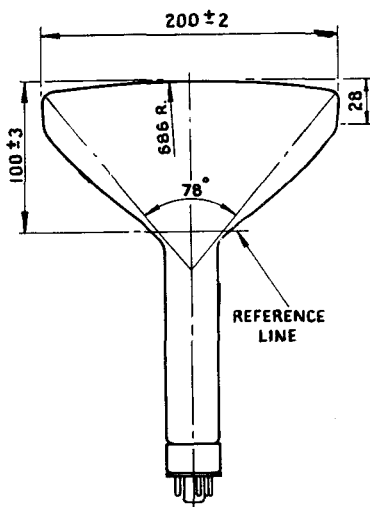
8/03TM



**Base
Connections
Underside View
of Base**



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Dimensions in millimetres