FERRANTI

MONITOR TUBE

17/03TB

A rectangular Tube with 17in. diagonal screen which is metal backed.
Designed primarily for use in Television Monitoring Epuipment.

FOCUS	... ...	Low Voltage Electrostatic.
DEFLECTION	... ...	Magnetic.
SCREEN....	... ...	Metal backed.
Phosphor	... ...	Type 'T'
Fluorescence	... ...	White

For further details, refer to the relevant 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	... ...	490 mm.
Nom. Neck diameter	... ...	37mm.

For other dimensions, see drawing.

Mounting Position	... ...	Any

Both types have an external conductive coating which can 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—3rd Anode.	Pin 12—Heater.

Side Contact—2nd Anode, 4th Anode.

HEATER.

*Heater Voltage	... ...	6·3 volts.
Heater Current	... ...	0·3 amp.

RATINGS.

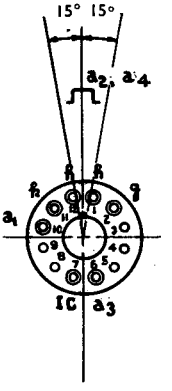
Max. A_1 Voltage	... ... 500 volts.
Max. $A_2 + A_4$ Voltage	... ... 18 kV.
Max. Pos. A_3 Voltage	... ... +500 volts.
Max. Neg. A_3 Voltage	... ... -500 volts.
Min. A_1 Voltage	... ... 200 volts.
Min. $A_2 + A_4$ Voltage	... ... 12 kV.
Max. V_{h-k}	... ... 200 volts.
Max. R_{g-k}	... ... 1·5 MΩ
Max. R_{h-k}	... ... 1·0 MΩ

TYPICAL OPERATION.

Heater Voltage	... ... 6·3 volts.
1st Anode Voltage	... ... 300 volts.
2nd + 4th Anode Voltage	... 15 kV.
‡3rd Anode Voltage for focus	... -300 to + 300 volts.
†V_g for visual cut off	... ... -30 to -90 volts.

CAPACITANCES.

C_{k-all}	... ... <8 pF.
C_{g-all}	... ... <8 pF.
$C_{a-ext.\ coating}$	... ... 1500 pF. approx.



Base Connections

Underside View of Base

*When used for series operation, the surge heater voltage should not exceed 9·5 volts r.m.s. and a current limiting device should be incorporated in the circuit to limit switching surge.

†The modulator should never be positive with respect to the cathode, except during the period immediately after switching off, when it may be allowed to rise to + 1 volt.

‡Optimum focus lies between these values.

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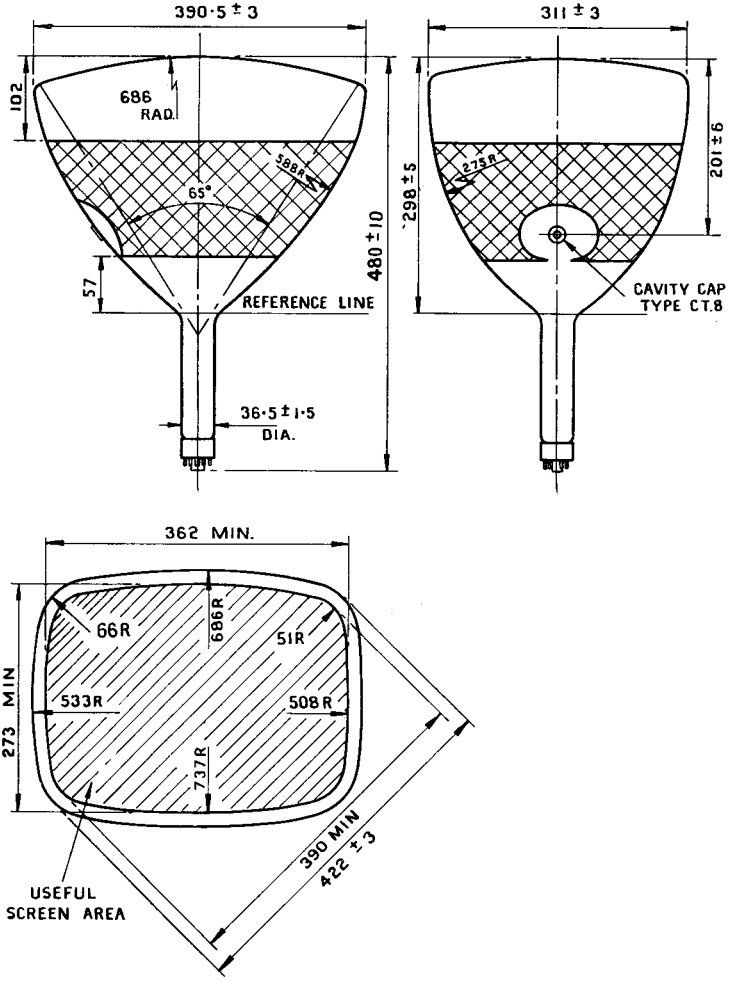
390·5 ± 3
102
686 RAD.
588R
65°
480 ± 10
57
REFERENCE LINE
36·5 ± 1·5 DIA.
311 ± 3
298 ± 5
275R
201 ± 6
CAVITY CAP TYPE CT.8
362 MIN.
273 MIN
66R
686R
51R
533R
508R
737R
USEFUL SCREEN AREA
390 MIN
422 ± 3