rranti

CATHODE RAY TUBES

6-inch diameter Tetrode Tubes having optically flat faces with o-inch diameter retroote rubes having optically hat faces with ground internal and external surfaces.

Type 6/44 DM is designed for use in Telerecording and in Television Transmission Systems Converters.

Type 6/44 PM is for use in recording high resolution images

on blue sensitive film stock.

FOCUS ... Magnetic.

DEFLECTION ... Magnetic.

SCREEN.

6/44 DM 6/44 PM Phosphor ... Type 'D Type 'P' Green Fluorescence Rive Persistence Short Ultra-short Both types have metal backed screens.

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

PHYSICAL DETAILS.

Base			BI2A (Duodecal).		
Anode Cap			CT.8 (Cavity Type).		
Max. Overall Length		•••	495 mm.		
Max. Diameter			163 mm.		
Nom. Neck Diameter			37 mm.		
Useful Screen Area			127 mm. dia.		
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 9No Pin.		
Pin 4—No Pin.	Pin 10Ist 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 amp.

RATINGS.

Max. A ₁ Voltage	 850 volts.
*Max. A ₂ Voltage	 30 kV.
†Nom. Vgf or visual cut off	 $V_{at}/7$ volts
Max. Vhk (Heater Negative)	 200 volts.
Max. Vhk (Heater Positive)	 200 volts.

TYPICAL OPERATION.

Ist Anode Voltage		600 volts.	
2nd Anode Voltage		25 kV.	
Vg for visual cut off		-85 volts.	
Grid Drive for IB=100 μA		35 volts.	
Screen Resolution at 50 f.p.	.s	1000 lines.	
Focus Coil		See Note § Below	٠.

CAPACITANCE.

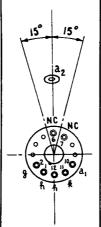
C _{k-all} C _{5-all}	 	 	<8 þF.
C ₂₋₂ 11	 	 	<8 bF.

X-RAY WARNING.

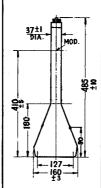
When operated at an anode voltage in excess of 16 kV. shielding may be required to protect against harmful X-ray radiation which could cause possible injury from prolonged exposure.

6/44DM

6/44PM



Connections Underside View of Base



All dimensions shown are in millimetres.



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^{*}Recommended operating range—17 to 25 kV, †The grid should never be positive with respect to the cathode. §A suitable coil is a solenoid of approx. 16,000 turns of 38 s.w.g. wire, positioned with the gap approx. 15,000 turns of 38 s.w.g. wire, positioned with the gap approx. 150 mm. in front of the modulator.



6/44DM 6/44PM

TYPICAL BEAM CURRENT/GRID VOLTAGE CHARACTERISTICS

