

# **CATHODE RAY TUBES**

6-inch diameter Triode Tubes for Magnetic deflection and focus.

Types 6/22AM and 6/22OM are designed for use in general

Types 6/22AM and 6/22QM are designed for use in general Flying Spot Scanner applications.

Type 6/22PM is for use in recording high resolution images on blue sensitive film stock.

on dide sensitive film stock.
All Types have optically flat faces with ground internal and external surfaces.

The tube face is of non-solarising glass.

FOCUS ... ... ... Magnetic.
DEFLECTION ... ... ... Magnetic.

SCREENS.

Phosphor ... Type 'A' Type 'P' Type 'Q'
Fluorescence Green Blue
Persistence Ultra-short Ultra-short Killed
All 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). CT.8 (Cavity Type). ... Anode Cap ... ... Max. Overall Length ... 495 mm. ... Max. Diameter ... 163 mm. Max. Diameter ... Nom. Neck Diameter ... ... 37 mm. ... Useful Screen Area 127 mm. dia. For other dimensions see drawing.

#### BASE CONNECTIONS.

Pin 1—Heater.
Pin 2—Grid.
Pin 8—No pin.
Pin 4—No pin.
Pin 5—No pin.
Pin 5—No pin.
Pin 6—Not connected.
Pin 11—Cathode.
Pin 12—Heater.

ATER.

6 · 3 volts. 0 · 3 amp.

Heater Voltage ... ... Heater Current ... ...

#### TYPICAL OPERATION.

## CAPACITANCE.

\*Recommended operating range—17 to 25 kV.

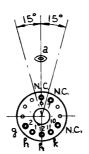
†The grid should never be positive with respect to the cathode. ‡At Beam Current of 100µA with a 10 x 10 cm. raster. \$A suitable coil is a soleniod of approx. 16,000 turns of 38 s.w.g. wire, positioned with the gap approx. 150 mm. in front of the modulator. Ferranti Type FC.1 (Pt. No. 38/13300) is available.

## X-RAY WARNING.

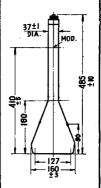
When operated at an anode voltage in excess of 16kV, shielding may be required to protect against harmful X-ray radiation which could cause possible injury from prolonged exposure. 6/22AM

6/22PM

6/22QM



# Underside View of Base



All dimensions shown are in millimetres.

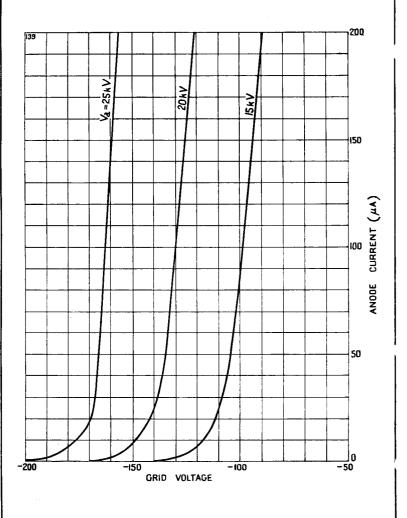


Issue 3 Nov. 1960



6/22AM 6/22PM 6/22QM

TYPICAL ANODE CURRENT GRID/VOLTAGE CHARACTERISTICS



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