

## HIGH RESOLUTION CATHODE RAY TUBES

5" diameter high resolution triode tubes having optically flat faces with ground internal and external surfaces.

FOCUS ... ... Magnetic

DEFLECTION ... ... Magnetic-Angle 60°

 SCREEN
 5/21AM
 5/21PM
 5/21QM

 Phosphor Type
 'A'
 'P'
 'Q'

Fluorescence Green Blue Blue/Violet
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
 ...
 ...
 B12A (Duodecal)

 Anode Cap
 ...
 ...
 CT8 (Cavity type)

 // LDDEC type J1-21)

 Max. Overall Length
 ...
 350 mm.

 Max. Diameter
 ...
 128 mm.

 Nom. Neck Diameter
 ...
 ...
 37 mm.

Min. Useful Screen Area ... 110 mm.
For other dimensions see drawing overleaf,

**BASE CONNECTIONS** 

Pin 1—Heater Pin 7—Not connected Pin 2—Grid Pin 8—No pin Pin 9—No pin Pin 4—No pin Pin 10—Not connected Pin 11—Cathode Pin 12—Heater

Side contact—Anode

**HEATER** 

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

RATINGS

TYPICAL OPERATION

Heater Voltage ... ... 6 · 3 volts
Anode Voltage ... ... 20 kV.
Vg for visual cut-off ... ... -90v.

\*Screen resolution ... ... 1000 lines per inch.

CAPACITANCE

X-RAY WARNING

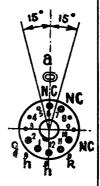
When operated at an anode voltage in excess of 16kV. X-ray shielding may be required to give protection against the possible danger of injury from prolonged exposure at close range.

\*At screen centre. Measured by shrinking raster method.



5/21 PM

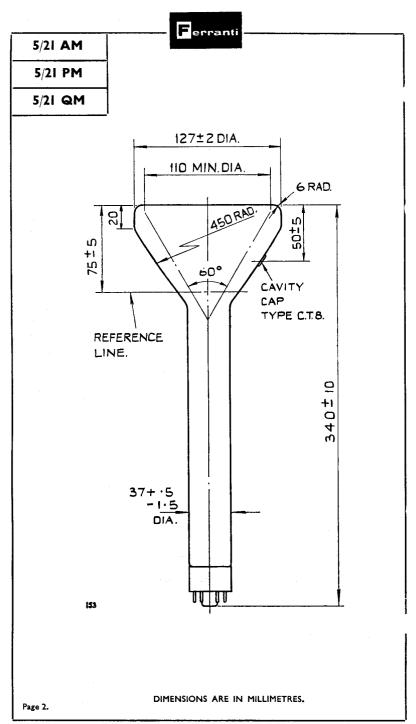
5/21 QM



Underside View of Base



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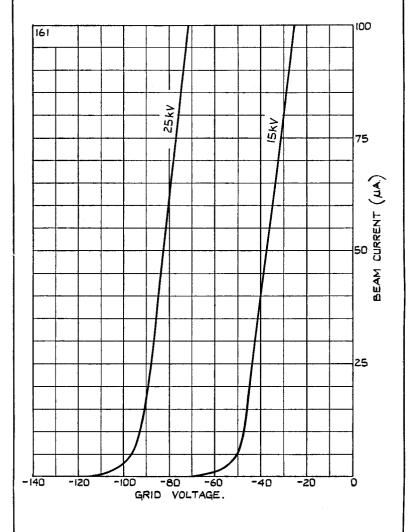


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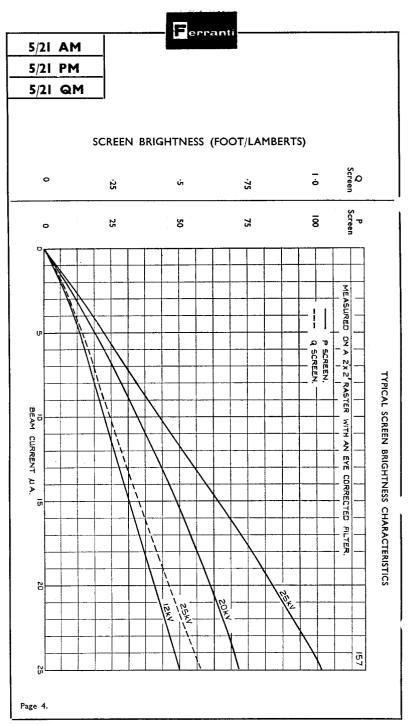
5/21 AM 5/21 PM 5/21 QM

TYPICAL BEAM CURRENT/GRID VOLTAGE CHARACTERISTIC



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