Ferranti

MICRO SPOT RADAR TUBES

A very high definition Cathode Ray Tube with a 5in. diameter optically flat face and fine grain metal backed screen.
This Tube is designed for use in applications where it is not necessary to have the very high resolution of a Type 5/71 micro-spot tube or for high definition applications requiring a higher light output than that provided by Type 5/71QM.

FOCUS	Magnetic and Electrostatic.
DEFLECTION	Magnetic, 60° angle.
SCREEN	Metal Backed.
*Phosphor	Type 'Q'
Fluorescence	Blue/Violet.
Persistence	Ultra Short.

PHYSICAL DETAILS.

Base	B12A (Duodecal)
Final Anode Connector ...	CT8 (Cavity type).
Max. Overall Length	430 mm.
Max. Diameter	135 mm.
Nom. Neck Diameter	37 mm.
Max. Useful Screen Diameter...	110 mm.

For other dimensions see outline drawing overleaf.

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—No Connection.	Pin 12—Heater.

Side Cap—2nd Anode.

HEATER.

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

RATINGS.

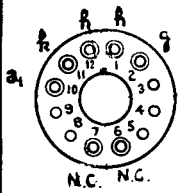
Max. Final Anode Voltage ...	30 kV.
Max. First Anode Voltage ...	2·5 kV.
Min. First Anode Voltage ...	1 kV.
V_g for visual cut-off (at V_{a1} = 2kV.)	−80 to −160 volts.
Max. V_{h-k} (heater negative) ...	200 volts.
Max. V_{h-k} (heater positive) ...	200 volts.

TYPICAL OPERATION.

Final Anode Voltage	25 kV.
First Anode Voltage	2 kV.
V_g for visual cut-off	−120 volts.
§Line Width	0·001 ins. (approx.).

CAPACITANCES.

C_{k-all}	<8 pF.
C_{g-all}	<8 pF.



Base Connections

View from spigot end of tube

*Other phosphors available to special order.
†This tube can also be supplied with potted anode and flying lead connector—Type 5/74QO
or with both potted anode and base with flying lead connections to all electrodes—Type 5/74QP.
§Measured by microscope at screen centre.

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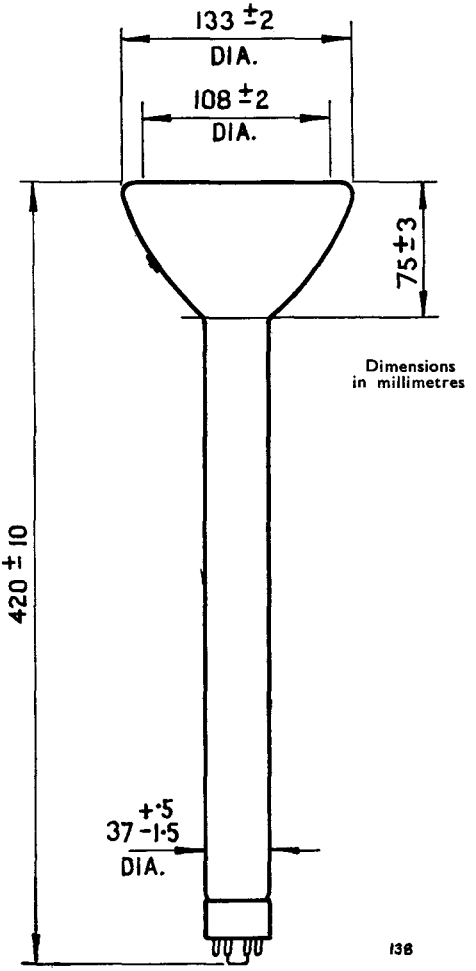
133 ±2
DIA.
108 ±2
DIA.
75 ±3
Dimensions
in millimetres
420 ± 10
+·5
37 -1·5
DIA.
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