



HIGH RESOLUTION DISPLAY TUBES

9 inch diameter Display Tubes with an optically flat face which has ground internal and external surfaces.

FOCUS. Magnetic

DEFLECTION. Magnetic

SCREEN.	9/25AM	9/25PM	9/25QM
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 (JEDEC Type J1-21)
Max. Overall Length	...	...	...	590 mm.
Max. Diameter	...	...	...	236 mm.
Nom. Neck Diameter	...	...	...	35 mm.
*Useful Screen Area Diameter...	...	...	...	210 mm. min.

BASE CONNECTIONS.

Pin 1—Heater	Pin 7—Not Connected
Pin 2—Grid.	Pin 8—No Pin
Pin 3—No Pin.	Pin 9—No Pin.
Pin 4—No Pin.	Pin 10—Not Connected
Pin 5—No Pin.	Pin 11—Cathode.
Pin 6—Not Connected.	Pin 12—Heater.

Side contact—Anode.

HEATER.

Heater Voltage	...	...	...	6.3 V.
Heater Current...	...	...	...	0.3 A.

RATINGS.

Max. Anode Voltage	...	...	...	30 kV.
Nom. V_g for visual cut-off	...	...	...	$V_a/210$
Max. V_{h-k} (heater negative)	...	...	...	200 V.
Max. V_{h-k} (heater positive)	...	...	...	200 V.
Max. R_{g-k}	...	...	...	1.5 M Ω

TYPICAL OPERATION.

Heater Voltage	...	...	...	6.3 V.
Anode Voltage	...	...	...	20 kV.
V_g for visual cut-off	...	...	...	-90 V.

Line width at screen centre ... See graph on page 4.

CAPACITANCE.

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

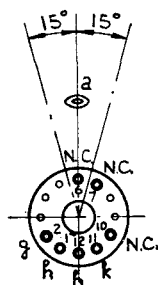
X-RAY WARNING: When operated at an anode voltage in excess of 16 kV. shielding may be required to protect against harmful X-ray radiation which could cause possible injury from prolonged exposure.

*Minimum diameter of internal ground surface

9/25AM

9/25PM

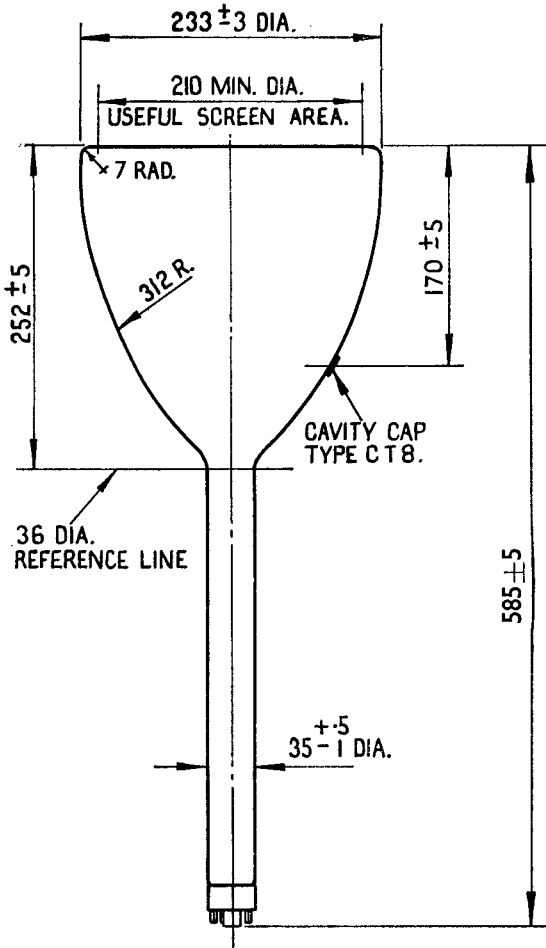
9/25QM



9/25AM

9/25PM

9/25QM



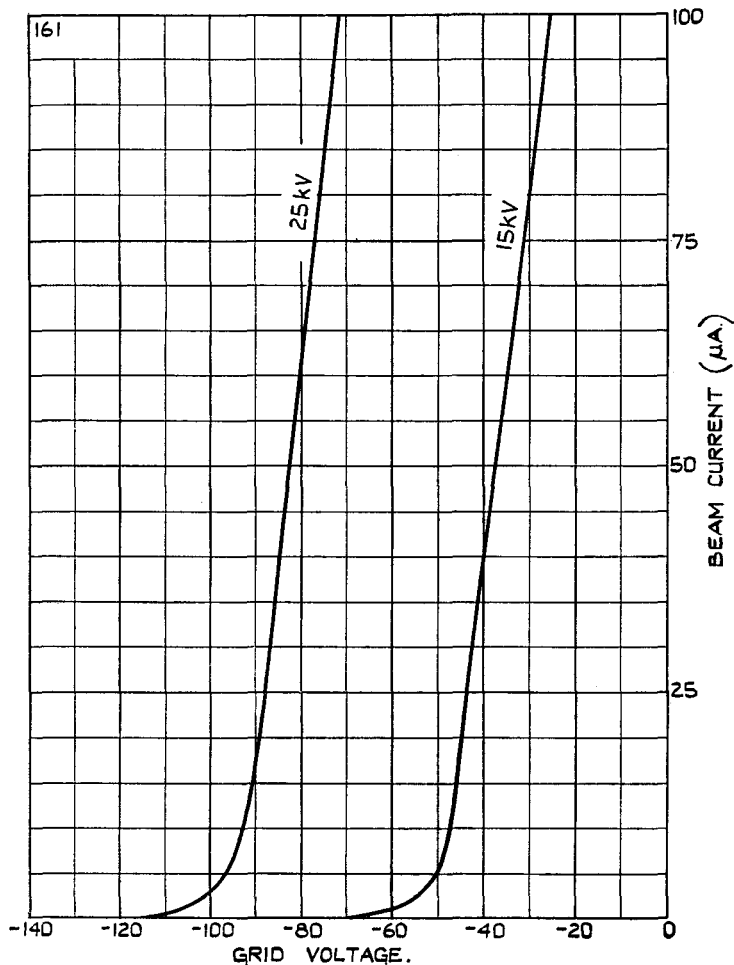
ALL DIMENSIONS IN MILLIMETERS

9/25 AM

9/25 PM

9/25 QM

TYPICAL BEAM CURRENT/GRID VOLTAGE CHARACTERISTIC

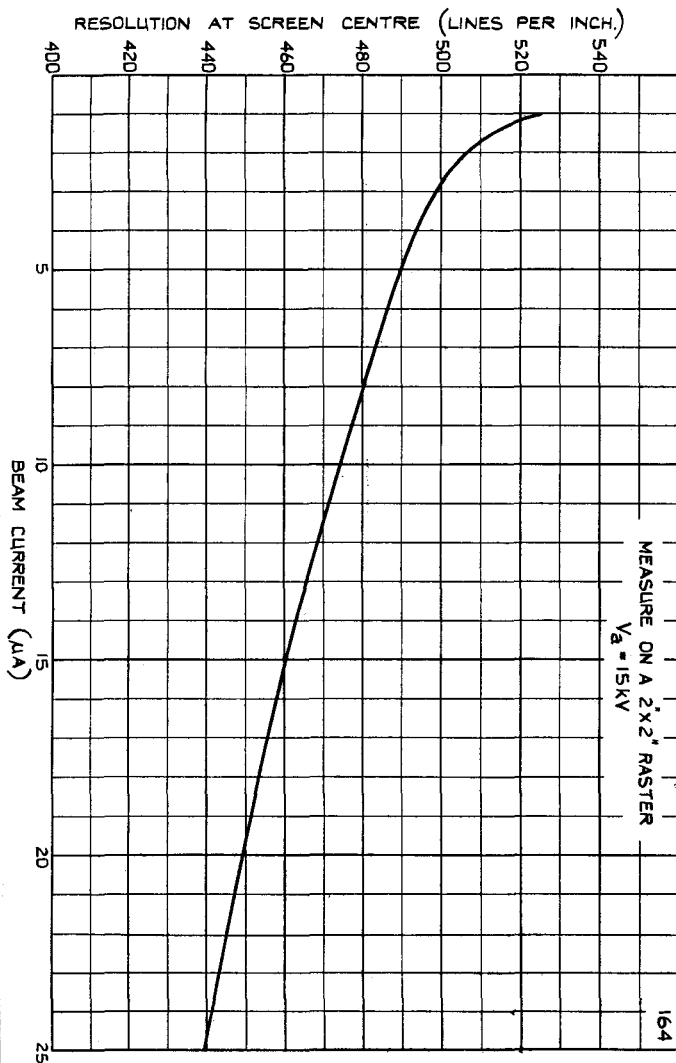




9/25AM

9/25PM

9/25QM



TYPICAL RESOLUTION OF "P" SCREEN.
(Measured by shrinking raster method).