



## FLYING SPOT SCANNER TUBES

High Resolution Rectangular Flying Spot Scanner Tubes with Electrostatic Focus.

FOCUS ... .. Low Voltage Electrostatic.

DEFLECTION ... .. Magnetic—90°

SCREENS ... .. Metal Backed.

Phosphor ...	8/03AM	8/03QM
Fluorescence	Type 'A'	Type 'Q'
	Green	Magenta.

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.
Max. Overall Length ... ..	293 mm.
Neck Diameter ... ..	37 mm. (nominal).
Mounting Position ... ..	Any.

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 9—No Pin.
Pin 4—No Pin.	Pin 10—1st Anode. (A <sub>1</sub> ).
Pin 5—No Pin.	Pin 11—Cathode.
Pin 6—3rd Anode. (A <sub>3</sub> ).	Pin 12—Heater.

Side Contact—2nd Anode+4th Anode. (A<sub>2</sub>+A<sub>4</sub>).

### HEATER.

Heater Voltage ... ..	6.3 volts.
Heater Current ... ..	0.3 amp.

### RATINGS.

Max. A <sub>1</sub> Voltage ... ..	500 volts.
Min A <sub>1</sub> voltage ... ..	200 volts.
Max. A <sub>2</sub> +A <sub>4</sub> voltage ... ..	15 kV.
Min. A <sub>2</sub> +A <sub>4</sub> voltage ... ..	10 kV.
Max. Pos. A <sub>3</sub> voltage ... ..	+500 volts.
Max. Neg. A <sub>3</sub> voltage ... ..	-500 volts.
Max. V <sub>h-k</sub> (Heater positive) ... ..	150 volts.
Max. V <sub>h-k</sub> (Heater negative) ... ..	200 volts.
Max. R <sub>g-k</sub> ... ..	1.5 MΩ
Max. R <sub>h-k</sub> ... ..	1.0 MΩ

### TYPICAL OPERATION AND CHARACTERISTICS.

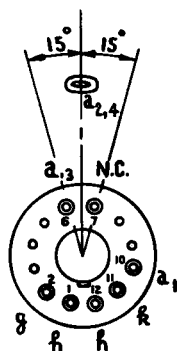
Heater Voltage ... ..	6.3 volts.
1st Anode Voltage ... ..	300 volts.
2nd and 4th Anode voltage ... ..	12 kV.
3rd Anode voltage ... ..	
for focus ... ..	-300 to +300 volts.
V <sub>g</sub> for visual cut off ... ..	-30 to -70 volts.
†Av. Grid Drive for I <sub>a</sub> =100 μA. ... ..	25 volts.
Screen Resolution ... ..	600 lines.

### CAPACITANCES.

C <sub>k-all</sub> ... ..	<8 pF.
C <sub>g-all</sub> ... ..	<8 pF.

8/03AM

8/03QM

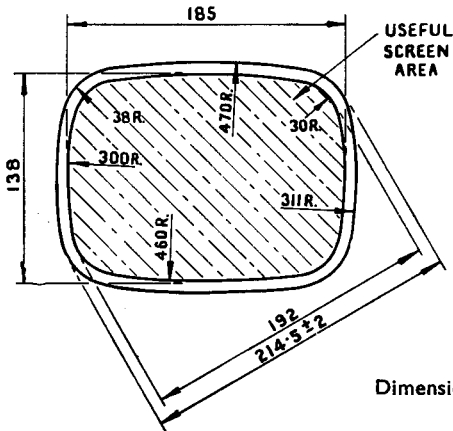
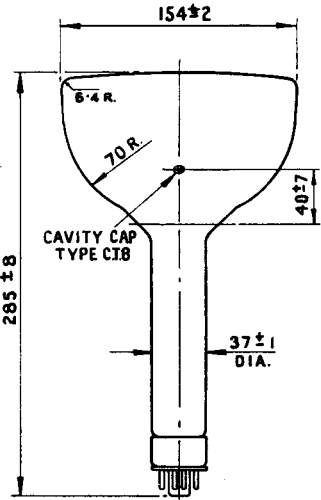
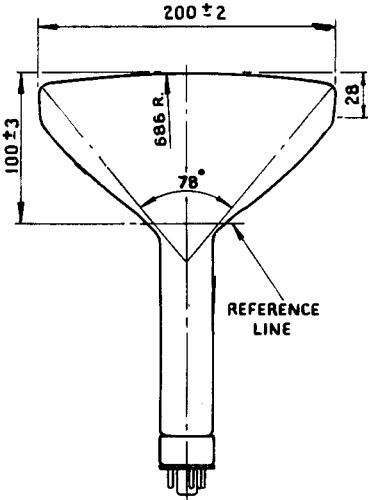


Base Connections  
Underside View  
of Base



†The grid should never be positive with respect to the cathode.

8/03AM  
8/03QM



Dimensions in millimetres.