

30E6

CATHODE RAY TUBE-ALL ELECTROSTATIC 12" Dia.

For measurement purposes

RATING

Heater Voltage (volts)	Vh	4.0
Heater Current (amps)	Ih	0.72
Maximum 1st Anode Voltage (volts)	Va1 (max)	500
Maximum 2nd Anode Voltage (volts)	Va2(max)	1,400
Maximum 3rd Anode Voltage (volts)	Va3(max)	6,000
Average Sensitivity of " X " Plates (mm/V)		*900/V
Average Sensitivity of " Y " Plates (mm/V)		*900/V

* Where " V " denotes the voltage on the 3rd Anode.

DIMENSIONS

Maximum Overall Length	(mm)	640
Maximum Diameter	(mm)	312
Maximum Neck Diameter	(mm)	65
Nominal Screen Diameter	(inches)	12
Approximate Nett Weight	(lbs)	7½
Approximate Packed Weight	(lbs)	40

NOTES

For general measurement work the 30E6/T1 is recommended. This has a screen with a medium persistence green phosphor. For special applications, however, the tube may be supplied with any of the standard phosphors described in the Introductory page to this Section except T7.

All Maximum Ratings are Absolute values not Design Centres.

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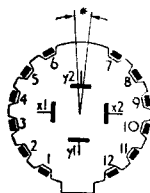
TYPICAL OPERATION

3rd Anode Voltage (volts)	V_{a3}	5,000	6,000
*2nd Anode Voltage—approximate for focus (volts)	V_{a2}	1,000	1,200
1st Anode Voltage (volts)	V_{a1}	400	450
Negative Bias on Control Grid for Cut-off beam Current (volts)	V_g	30-60	34-64

* The voltage required on the 2nd Anode for focus decreases with an increase of beam current and the above figure gives the voltage required at low currents.

BASE—B12D

* Permissible angular variation of mounts $\pm 10^\circ$



View from free end of base.



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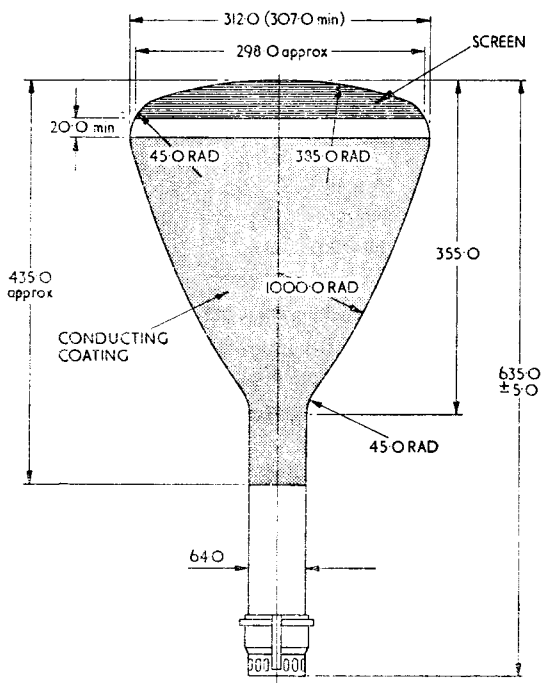
CONNECTIONS

Pin 1	Control Grid	g	
Pin 2	Cathode	k	
Pin 3	Heater	h	
Pin 4	Heater	h	
Pin 5	Anode 1	a1	
Pin 6	Anode 2	a2	
Pin 7	No Connection	NC	←
Pin 8	Deflecting Plate Y2	y2	
Pin 9	Deflecting Plate X2	x2	
Pin 10	Anode 3, Internal Coating	a3,m	
Pin 11	Deflecting Plate X2	x1	
Pin 12	Deflecting Plate Y1	y1	

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All Dimensions in mm.