

30E11
CATHODE RAY TUBE—LONG AFTERGLOW
 12 inch Diameter
 Indirectly heated—for Marine Radar

GENERAL

The 30E11 is a 12" aluminised cathode ray tube, having a special long-afterglow screen, suitable for P.P.I. display. A double layer type screen is employed which gives a blue flash with a yellow afterglow. The focusing is electrostatic and the deflection magnetic.

RATING

Heater Voltage (volts)	V_h	4.0
Heater Current (amps)	I_h	0.75
Maximum 1st Anode Voltage (volts)	$V_{a1(max)}$	1,700
Maximum 2nd Anode Voltage (volts)	$V_{a2(max)}$	1,700
Maximum 3rd Anode Voltage (volts)	$V_{a3(max)}$	*10,000

* The maximum rating of 10kV is a design centre rating. The absolute maximum of 12,000 volts must not be exceeded.

NOTE. The 1st Anode must always be at least 50 volts positive with respect to the 2nd Anode.

DIMENSIONS

Maximum Overall Length (mm)	540
Maximum Bulb Diameter (mm)	312
Maximum Neck Diameter (mm)	35
Minimum Neck Diameter (mm)	33.5
Screen Face to 35.5 m/r dia. Swing Gauge (mm)	284 ± 3
Nominal Screen Diameter (ins.)	12
Approximate Nett Weight (lbs)	6
Approximate Packed Weight (lbs)	35

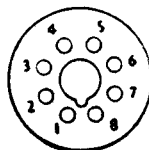
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TYPICAL OPERATION

3rd Anode Voltage (volts)	10,000
2nd Anode Voltage (Focusing) volts (approx)	1,500
1st Anode Voltage (volts)	1,550
Average Negative Bias on Control Grid for cut-off of Beam Current (volts)	80

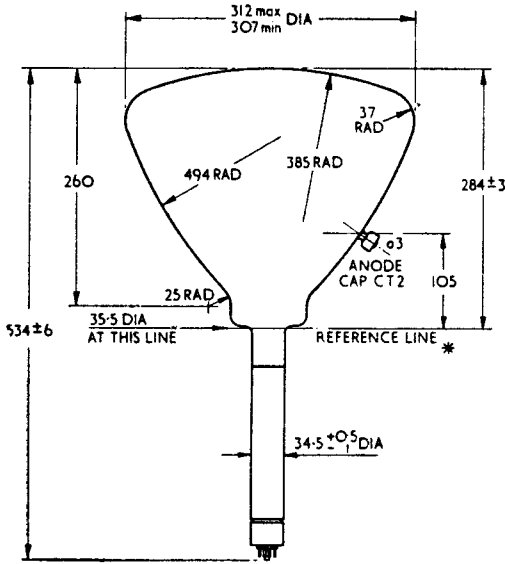
BASE—International Octal (108)

Viewed from free end of pins

CAP—CT2**VALVE HOLDER**—Ediswan Clix VH 232/8, VH 238/8.**CONNECTIONS**

Pin 1	No Internal Connection	NC
Pin 2	Anode 1	a1
Pin 3	Anode 2	a2
Pin 4	No Internal Connection	NC
Pin 5	Grid	g
Pin 6	Cathode	k
Pin 7	Heater	h
Pin 8	Heater	h
CAP	Anode 3	a3

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4230E11-01A

All dimensions in mm.

Anode Cap in line with keyway on base.

* Determined by Reference Line Gauge No. 6. See Section 3.