

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV3797/Issue No. 1. Dated : 29.9.51. To be read in conjunction with K1004.		<u>SECURITY</u>	
		<u>Specification</u> Unclassified	<u>Valve</u> Unclassified
<u>TYPE OF VALVE:-</u> Split Cathode Single Anode Vacuum Photo Electric Cell. <u>CATHODE:-</u> Caesium treated silver oxide. <u>ENVELOPE:-</u> Glass. <u>PROTOTYPE:-</u> V.944A.		<u>MARKING</u>	
		See K1001/4.	
		<u>BASE</u>	
		Mazda Octal	
		Pin	Electrode
		1	Bottom Cathode
		2	No Connection
		3	No Connection
		4	Anode
		5	No Connection
		6	No Connection
		7	No Connection
		8	Top Cathode
		<u>DIMENSIONS</u>	
		See Page 3.	
		<u>PACKAGING</u>	
		See K1005.	
		<u>NOTES</u>	
<p>A. Measured with $V_a = 25$ volts, colour temperature of source = 2848°K and diameter of projected circle of illumination = 14 mm.</p> <p>B. The spectral sensitivity shall correspond to the normal published characteristics of a caesium on silver cathode.</p> <p>C. The maximum voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated. It is <u>NOT</u> to be marked on the cell.</p> <p>D. The working voltage is to be clearly and permanently marked on each cell.</p>			

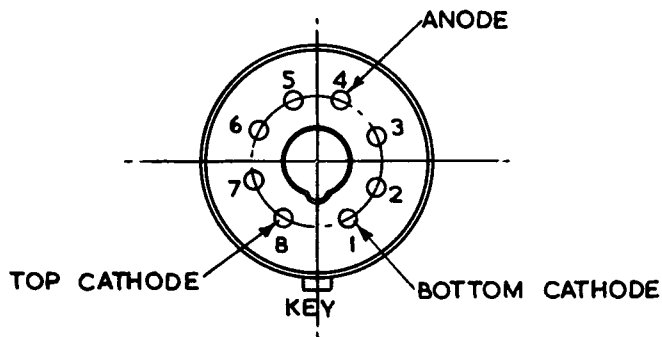
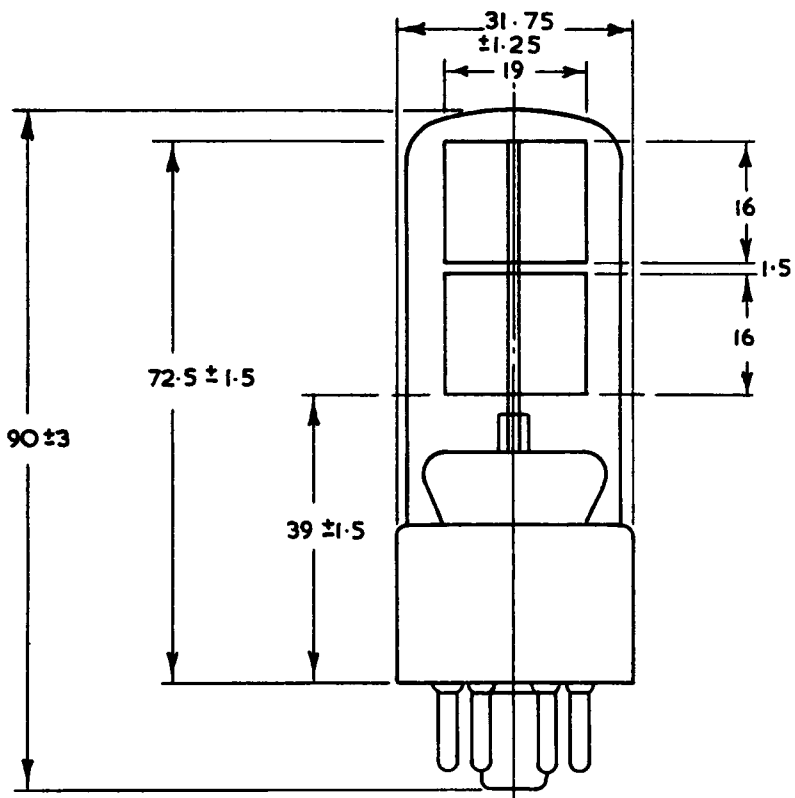
TESTS

To be performed in addition to those applicable in K1004.

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	Test each half of cell $V_a = 25$ V	Relative Sensitivity ($\mu A/L$)	The sensitivity of the weaker cell shall not be less than 75% of the other.		100%	1,2
b	$V_a = 25$ V	Sensitivity ($\mu A/L$) Test each cathode separately.	10.0	-	100%	1,2
c	$V_a = 90$ V Cell shielded from all sources of light.	I_a (μA) Test each cathode separately.	-	0.1	100%	2
d	Sensitivity with $V_a = 90$ Sensitivity with $V_a = 25$	Vacuum Test (Ratio)	-	1.3	100%	1,2

NOTES

1. With colour temperature 2848°K. Diameter of projected circle of illumination 14 m/m.
2. All the above tests will be carried out with a load resistance of not less than 0.1 M- Ω in the anode circuit.



ALL DIMENSIONS IN MILLIMETRES.