


Specification MOSA/CV.495 Issue 3 Dated 22.5.1953 To be read in conjunction with K.1001		<u>SECURITY</u> <u>Specification</u> <u>Valve</u> UNCLASSIFIED UNCLASSIFIED	
 Indicates a change			
TYPE OF VALVE - Electrometer Triode CATHODE - Directly Heated ENVELOPE - Glass PROTOTYPE - VX.8049		<u>MARKING</u> See K.1001/4, except that the valve shall be marked with CV No., Date Code and Factory Code only.	
<u>RATING</u>		<u>BASE</u> See Drawing on Page 3	
		Note	
Heater Voltage	(V)	1.25	
Heater Current	(mA)	13	
Max. Anode Voltage	(V)	25	
Max. Anode Current	(μ A)	250	
Mutual Conductance	(μ A/V)	80	A
μ		2.2	
Max. Negative Grid Current	(A)	12.5	A
		$\times 10^{-14}$	
<u>CONNECTIONS AND DIMENSIONS</u> See Drawing on Page 3			
<u>NOTES</u>			
A. Measured at $V_a = 9V$; $I_a = 100 \mu a$. B. Anode Voltage must be applied after the heater voltage to avoid excessive drift. C. Do not finger glass envelope within $1/2"$ of leads, and wires are not to be soldered nearer than $1/2"$ to the base to avoid contamination of the glass.			

CV495

TESTS

To be performed in addition to those applicable in K1001

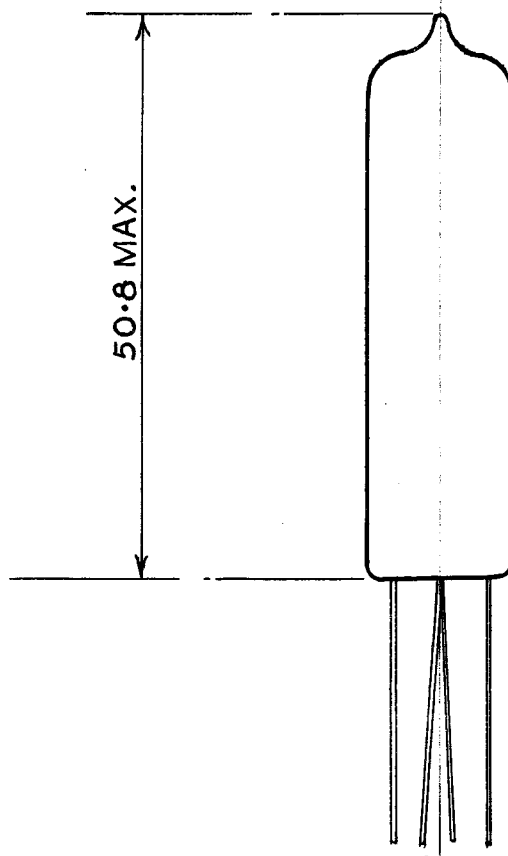
Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
a	Vh	Va	Ia(μ a)	Ih (mA)	11.5	14.5	100% or 3	
b	1.25	9	100	Vg (V)	-2.0	-3.75	100%	
c	1.25	9	100	gm μ A/V.	70	90	100%	1
d	1.25	9	100	Ig (A)	-	12.5 x 10 ⁻¹⁴	100%	2
e	1.25	9	20	Ig (A)	-	6 x 10 ⁻¹⁴	100%	2
f	1.25	9	Variable	Vg Crossover (V)	-	-1.6	5%	
g	1.25	9	100	μ	1.7	2.7	100% or 3	1

NOTES

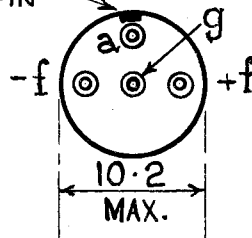
1. Measured by increasing the bias by 0.5 volt Negative from the value obtained in Clause (b).

In clause "g", Va is adjusted to maintain constant Ia.

2. Measurements should be made in an electrostatically shielded, light-tight container.



RED SPOT ON BULB
DENOTES ANODE PIN



VIEW OF UNDERSIDE OF BASE