MINISTRY OF SUPPLY D.L.R.D.(A) /R.A.E.

VALVE ELECTRONIC

CV495

Specification MOSA/CV.495
Issue 3 Dated 22.5.1953
To be read in conjunction with K.1001

SECURITY	
Specification	Valve
UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Electrometer Triode

CATHODE - Directly Heated

ENVELOPE - Glass

PROTOTYPE - VX.8049

MARKING

See K.1001/4, except that the valve shall be marked with CV No., Date Code and Factory Code only. ←

RATING

			Note
Heater Voltage	(V)	1.25	
Heater Current	(mA)	13	
Max. Anode Voltage	(V)	25	
Max. Anode Current	(μA)	250	
Mutual Conductance	(μA/V)	80	A
μ		2.2	
Max. Negative Grid Current	(A)	12.5 $\times 10^{-14}$	A

BASE

See Drawing on Page 3

CONNECTIONS AND DIMENSIONS

See Drawing on Page 3

NOTES

A. Measured at Va = 9V; Ia = 100 μa.

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
	Vh	Va	Ia(μa)			Min.	Max.		
a	1.25	-	-	Ih	(mA)	11.5	14.5	100% or S	
b	1.25	9	100	Vg	(V)	− 2.0	− 3.75	100%	
c	1.25	9	100	gm	μA/V.	70	90	100%	1
d	1.25	9	100	Ig	(A)	-	12.5×10^{-14}	100%	2
e	1.25	9	20	Ig	(A)	-	6×10^{-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 S	1

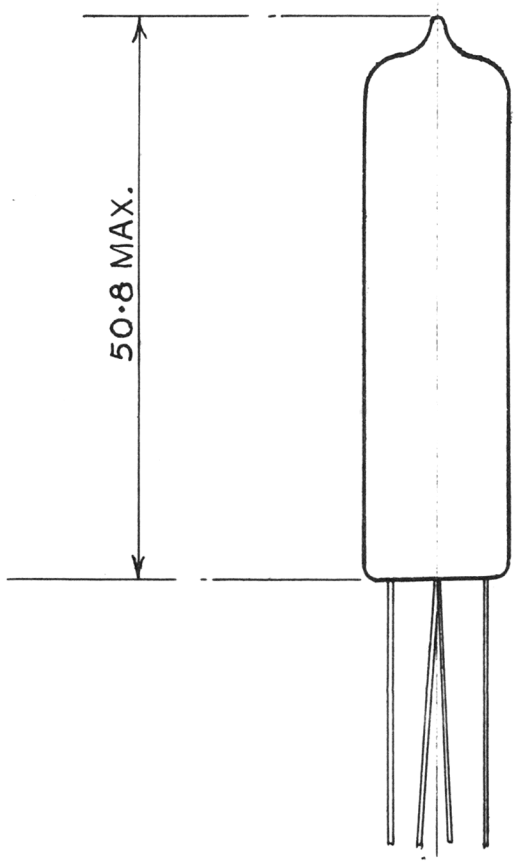
NOTES

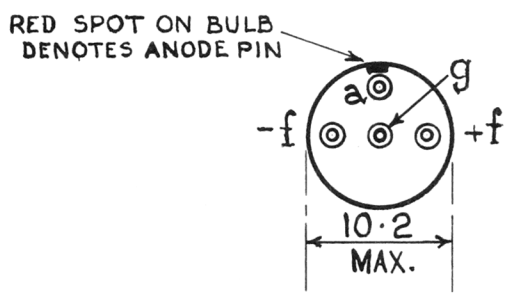
1. Measured by increasing the bias by 0.5 volt Negative from the value obtained in Clause (b).

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

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

CV495





VIEW OF UNDERSIDE OF BASE