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

VALVE ELECTRONIC **CV469**

Specification MOSA/CV.469 Issue 6 Dated 16.10.54 To be read in conjunction with B.S.1409 and K.1001	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Single Diode

CATHODE - Indirectly Heated

ENVELOPE - Glass, unmetallised

PROTOTYPE - VX.8062

MARKING
See K.1001/4
CV number, T.A. letters, Factory and Date code, only required.

BASE
B5B

RATING			Note
Heater Voltage	(V)	6.3	
Heater Current	(mA)	150	
Max. P.I.V.	(V)	460	
Max. Peak Anode Current	(mA)	60	
Max. Mean Anode Current	(mA)	10	
Max. hk Voltage	(V)	330	A

CONNECTIONS

Pin	Electrode
1	h
2	a
3	k
4	h
5	a

CAPACITANCES (pF)

Ca,k + h + Sh (nom.)	4.0	B
Ck,a + h + Sh (nom.)	4.0	B

DIMENSIONS
See Drawing on Page 3

Dimension	Min.	Max.
A m.m.	-	28.5
B m.m.	-	5.4

NOTES

A. Breakdown value with cathode positive to heater.

B. Measured with a close fitting metal shield.

To be performed in addition to those applicable in K.1001

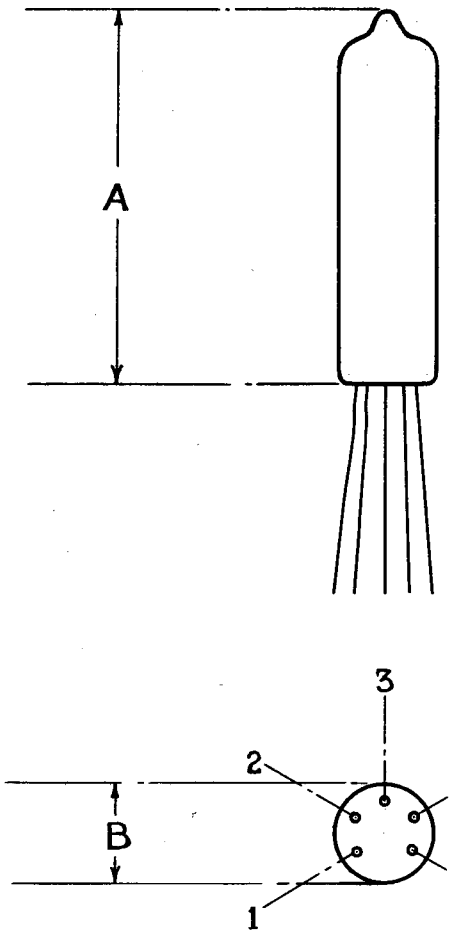
	Test Conditions			Test	Limits Min.	Limits Max.	No. Tested	Note
	See K.1001/A111							
	Links to H.P.	Links to L.P.	Links to E.	Capacitances (pF)				
a	2,5	1,3,4, Sh	-	Ca,k + h + Sh	3.25	4.7	6 per week	1
a	3	1,2,4,5, Sh	-	Ck,a + h + Sh	2.75	5.2		
	Vh	Va						
b	6.3	-		Ih (mA)	135	165	100%	
c	6.3	5		Ia (mA)	20	-	100%	
d	6.3	Resistance between cathode and anode 40K ohms		Ia (μA)	5	25	100%	
e	6.3	-100		Anode-all Leakage (μA)	-	5	100%	
f	6.3	Vhk						
		(1) 20VDC(Cathode positive)		Ihk (μA)	-	1.0	100%	2
		(2) 90VDC(Cathode positive)		Ihk (μA)	-	4.5	100%	2
		(3) 90VDC(Cathode negative)		Ihk (μA)	-	9.0	100%	2

NOTES

1. Measured with a close fitting metal shield. Connections refer to valve pins. All shall be measured at a frequency of at least 1.0 Mc/s.

2. See K.1001/5.3 except that the voltages and limits shall be as shown.

CV469



BULB STRAIGHTNESS. The finished valve must pass through a cylindrical gauge of length at least equal to that of the bulb. I.D. of cylinder = 0.218 inch.

LEADS. The leads shall be flexible 25 - 27 S.W.G. tinned wire at least 38 mm. in length.