

VALVE ELECTRONIC**CV450**GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV450/Issue 4	<u>SECURITY</u>	
Dated: Feb. 1954	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001 →	Unclassified	Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> Output pentode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K1001/4			
<u>ENVELOPE:</u> Glass unmetallised				<u>BASE</u>			
<u>PROTOTYPE</u> EL38				I.O.			
<u>RATING</u>				<u>Note.</u>	<u>CONNEXIONS</u>		
				1	<u>Pin</u>	<u>Electrode</u>	
Heater voltage (V) 6.3					1	G3	
Heater current (A) 1.4					2	Heater	
Max. anode voltage (V) 600					3	No connexion	
Max. screen voltage (V) 400					4	G2	
Mutual conductance (mA/V) 14.3					5	G1	
Max. anode dissipation (W) 25					6	Pin Omitted	
Max. screen dissipation (W) 8					7	Heater	
					8	Cathode	
					TC	Anode	
					<u>DIMENSIONS</u>		
					See K1001/A1/D1		
					<u>Dimension</u>	<u>Min</u>	<u>Max</u>
					A(mm)	-	141
					B(mm)	-	54
					<u>TOP CAP</u>		
					See K1001/A1/D5.2		
<u>NOTES.</u>							
1. Measured with Va = 250 volts, Vg1 = - 7 volts & Vg2 = 250 volts							

CV450

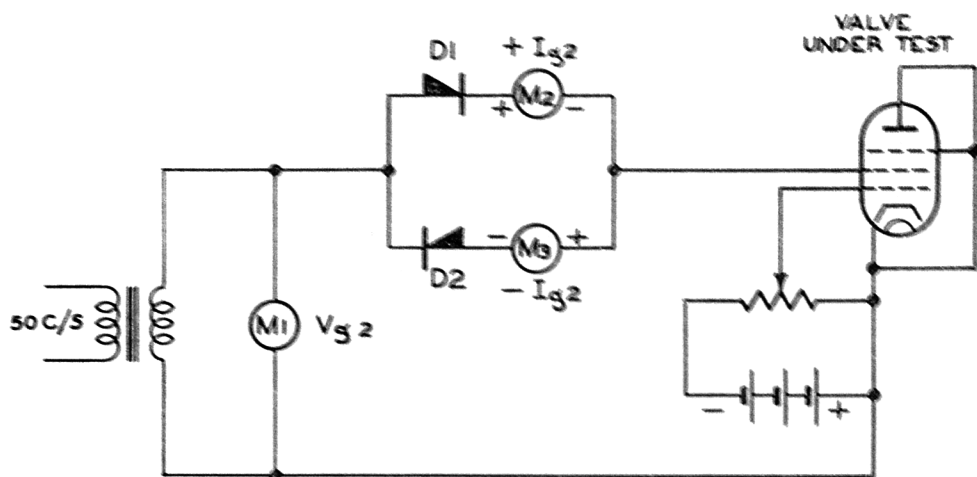
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TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested	Note
	Vh	Va	Vg2	Vg1		Min.	Max.		
a	6.3	35	35	35	Ie (mA)	165	-	100%	1
→ b	6.3	250	250	-4	Ia (mA)	125	205	100%	
→ c	6.3	250	250	-10	Ia (mA)	42	82	100%	
d	6.3	250	250	-20	Ia (mA)	-	7	100%	
e	6.3	250	250	-7	Reverse Ig1 (μA)	-	2	100%	2
f	6.3	250	250	-45	Ia (μA)	-	10	100%	3
→ g	6.3	0	250 r.m.s.	Adjust	Reverse Ig2 (μA)	-	750	100% or S.	4

- Notes**
1. Collecting voltage 35V at 50 c/s.
 2. 0.1 megohms protective resistance in series.
 3. 1.0 megohms protective resistance in series.
 4. Using circuit on Page 3, adjust Vg 1 until meter M2 reads 34 mA. The screen dissipation is then 6 watts. Meter M3 indicates the reverse Ig2.



- M_1 = AC VOLTMETER (CALIBRATED R.M.S.)
 M_2 = AC CURRENT METER (R.M.S. READING)
 M_3 = DC CURRENT METER (MOVING-COIL)
 D_1 = SUITABLE GERMANIUM CRYSTAL DIODES
 D_2