

VALVE ELECTRONIC **CV1700**GENERAL POST OFFICE: E-IN-C (s)

(POVT 150A)

Specification: G.P.O./CV/1700/Issue 1	<u>SECURITY</u>	
Dated: 19/9/46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

→ indicates a change

<u>TYPE OF VALVE:</u> R. F. Pentode				<u>MARKING</u>		
<u>CATHODE:</u> Indirectly heated				See K 1001/4		
<u>ENVELOPE:</u> Metallised glass				<u>BASE</u>		
<u>PROTOTYPE</u> SP 41				Mazda Octal (M.O.)		
<u>RATING</u>			Note	<u>CONNEXIONS</u>		
				Pin	Electrode	
Heater voltage	(V)	4.0	A	1	Heater	
Nominal heater current	(A)	0.95		2	Cathode	
Max.anode voltage	(V)	250		3	Anode	
Max.screen voltage	(V)	250		4	G2	
Mutual conductance	(mA/V)	8.5		5	G3	
				6	Metallising	
				7	Pin omitted	
				8	Heater	
				T.C.	GI	
<u>CAPACITANCES (pF)</u>				<u>TOP CAP</u>		
				See K 1001/A1/D1		
				<u>DIMENSIONS</u>		
				See K 1001/A1/D1		
				<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
				A (mm)	-	95
				B (mm)	-	33
<u>NOTE</u>						
A. Measured with Va = 200, Vg1 = -1.5, and Vg2 = 200						

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS						TEST	LIMITS		No Tested	Note
								Min.	Max.		
(a)	See K 1001/A III						<u>CAPACITANCES (pF)</u>				
	Links to HP	Links to L.P	Links to E								
	3	TC 1	1,2,4,5,6,7 8,9,10,TC1, TC2				(i) Cag	-	0.02	6 per week	
	3	1,2,4,5 6, 8	7,9,10, TC1, TC2				(ii) Cae	-	7.0	6 per week	
	TC 1	1,2,4,5, 6, 8.	3,7,9,10, TC 2				(iii) Cge	-	12.0	6 per week	
(b)	Test Voltage						INSULATION				
	-						(i) Heater & Cathode	-	-	1%	1
	20 Volts D.C						(ii) Cathode to G1 (megohms)	60	-	1%	
	250 volts D.C						(iii) Between all other (megohms) electrodes	500	-	1%	
	Vh (V)	Va	Vg 1	Vg2	Vg3	Ia (mA)					
(c)	4.0	0	0	0	0	0	Ih (A)	0.9	1.0	100%	
(d)	4.0	200	Adjust	200	0	8.0	Reverse Ig 1 (μA)	-	0.5	100%	
(e)	4.0	200	Read	200	0	8.0	Vg 1 (V)	-1.38	-2.33	100%	
(f)	4.0	200	Note 2	200	0	-	gm mA/V	6.6	-	100%	2

NOTES

1. To be performed in accordance with K 1001/5.3.
2. Vg 1 changed from - 1.7 V to -1.3V.