

VALVE ELECTRONIC **CV1700**

GENERAL POST OFFICE: E-IN-C (S)

(POVT 150A)

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

—————> indicates a change

<u>TYPE OF VALVE:</u> R. F. Pentode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Metallised glass <u>PROTOTYPE:</u> SP 41			<u>MARKING</u> See K 1001/4		
			<u>BASE</u> Mazda Octal (M.O.)		
<u>RATING</u>			<u>CONNEXIONS</u>		
Heater voltage (V) Nominal heater current (A) Max. anode voltage (V) Max. screen voltage (V) Mutual conductance (mA/V)	4.0 0.95 250 250 8.5	Note A	Pin 1 2 3 4 5 6 7 8 T.C.	Electrode Heater Cathode Anode G2 G3 Metallising Pin omitted Heater GI	
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u>		
C _{ag} (max) C _{ae} (max) C _{ge} (max)	0.02 7.0 12.0		See K 1001/A1/D1		
			<u>DIMENSIONS</u>		
			See K 1001/A1/D1		
			Dimension A (mm) B (mm)	Min. - -	Max. 95 33
<u>NOTE</u>					
A. Measured with V _a = 200, V _{g1} = -1.5, and V _{g2} = 200					

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS						TEST	LIMITS		No Tested	Notes
								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				
	7						(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.