

VALVE ELECTRONIC **CV 1650**

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

(FOVT 66)

Specification: G.P.O./CV 1650/Issue 1 Dated: 18-9-46 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> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> LS 5A			<u>MARKING</u> See K 1001/4		
<u>RATING</u>		Note	<u>BASE</u> British 4-pin (B4)		
Filament current (A)	0.85		<u>CONNECTIONS</u>		
Nominal filament voltage (V)	4.85	A	Pin	Electrode	
Max. anode voltage (V)	400		1	Anode	
Amplification factor	2.3		2	Grid	
Anode impedance (ohms)	2700		3	Filament -	
Mutual conductance (mA/V)	0.85		4	Filament +	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
C _{ag} (max)	10.0	See K 1001/A1/D1			
C _{ae} (max)	10.0	Dimension		Min.	Max.
C _{ge} (max)	10.0	A (mm)	-	127	
		B (mm)	-	64	

This valve type is obsolete and this specification is for record purposes only

NOTE
A. Measured with $V_a = 150$,
and $V_g = -22$

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 H.P.	Links to H.P.	Links to E						
	1	2	3,4,5,6,7,8,9,10,TC1,TC2		(i) C _{ag}	-	10.0	6 per week	
	1	3,4	2,5,6,7,8,9,10,TC1,TC2		(ii) C _{ae}	-	10.0	6 per week	
	2	3,4	1,5,6,7,8,9,10,TC1,TC2	(iii) C _{ge}	-	10.0	6 per week		
(b)	Test Voltage 500 Volts D.C.			<u>INSULATION (megohms)</u> (i) Between any two electrodes	500	-	1%		
	I _f (A)	V _a	V _g						
(c)	0.85	-	-	V _f (V)	4.5	5.2	100%		
(d)	0.85	150	- 22	R _a "x" (ohms)	2100	3300	100%		
(e)	0.8	150	- 22	R _a "y" (ohms)	-	1.2"x"	100%	1	
(f)	0.85	150	- 22	μ	1.8	2.8	100%		
(g)	0.85	150	- 10	Reverse I _g (μA)	-	1.0	100%		

NOTE

1. Re-adjust I_f with V_a = V_g = 0