

VALVE ELECTRONIC **CV1720**GENERAL POST OFFICE: E-IM-C (W)

(POVT 177)

Specification: G.P.O./CV1720/Issue 1	<u>SECURITY</u>	
Date: 19.3.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

--- indicates a change

<u>TYPE OF VALVE:</u> Midget triode			<u>MARKING</u>		
<u>CATHODE:</u> Directly heated			See K1001/4		
<u>ENVELOPE:</u> Unmetallised glass					
<u>PROTOTYPE</u> XL 1.5					
<u>RATING</u>			<u>BASE</u>		
			Hivac midget 4-pin (H4)		
			<u>CONNEXIONS</u>		
			Pin	Electrode	
Filament voltage	(V)	1.5	1	Grid	
Nominal filament current	(A)	0.083	2	Filament	
Max. anode voltage	(V)	100.0	3	Filament	
Mutual conductance	(mA/V)	0.7	4	Anode	
			<u>DIMENSIONS</u>		
			See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	65
			B (mm)	-	15
<u>NOTE</u>					
A. Measured with $V_a = 50$, and $V_g = 0$					

To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	Vf(V)	Va	Vg		Min.	Max.		
(a)	1.5	-	-	If (A)	0.078	0.088	100%	1
(b)	1.5	50	0	Ia (mA)	1.3	1.5	100%	1
(c)	1.5	50	-1.0	Ia (mA)	0.75	0.85	100%	1
(d)	1.5	100	-1.0	Reverse Ig (μ A)	-	0.8	100%	1
(e)	1.5	50	0	gm (mA/V)	0.6	0.75	100%	1

NOTE

1. Before commencing the tests, the filament shall be pre-heated for 10 minutes, the filament voltage being adjusted to 1.5 volts with all other electrodes disconnected.