

VALVE ELECTRONIC **CV 1703**

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

(FOVT 153)

Specification: G.P.O./CV 1703/Issue 1 Dated: 22-9-46 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> Midget Pentode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> KW			<u>MARKING</u> See K 1001/4		
			<u>BASE</u> Hivac (midget) 5-pin (H5)		
<u>RATING</u>			<u>CONNEXIONS</u>		
		Note	Pin	Electrode	
Filament voltage	(V)	2.0	1	G3	
Nominal filament current	(A)	0.07	2	Anode	
Max. anode voltage	(V)	100	3	Filament	
Max. screen voltage	(V)	40	4	Filament	
Mutual conductance	(mA/V)	0.55	5 T.C.	G2 G1	
			<u>TOP CAP</u> See K 1001/A1/D5.3		
			<u>DIMENSIONS</u> See K 1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	78
			B (mm)	-	18
<u>NOTE</u>					
A. Measured with $V_a = 100$ , $V_g 2 = 40$ , and $V_g 1 = 0$					

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vf	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	2.0	-	-	-	-	If (mA)	65.0	75.0	100%	1
(b)	2.0	100	0	40	-	Ia (mA)	0.6	1.15	100%	1
(c)	2.0	100	-1	40	-	Ia (mA)	0.25	0.55	100%	1
(d)	2.0	100	-1	40	-	Reverse Ig ( $\mu$ A)	-	1.0	100%	1
(e)	2.0	100	0	40	-	gm (mA/V)	0.4	0.7	100%	1

NOTE

1. Before commencing the tests, the filament shall be pre-heated for 10 minutes, the filament voltage being adjusted to 2 volts with all other electrodes disconnected.