

VALVE ELECTRONIC CV 1685

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

(POVT 116A)

Specification: G.P.O./CV1685/Issue 1 Date: 21.2.47 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> Pentode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Urmetallised glass <u>PROTOTYPE:</u> APP4C		<u>MARKING</u> See K1001/4		
<u>RATING</u>		<u>Note</u> A	<u>BASE</u> British 7-pin (B7)	
Heater voltage (V) 4.0 Nominal heater current (A) 2.0 Max. anode voltage (V) 250 Max. screen voltage (V) 250 Max. anode dissipation (W) 8.0 Mutual conductance (mA/V) 10.0	<u>CONNEXIONS</u>			
			<u>Pin</u>	<u>Electrode</u>
			1	G3
			2	G1
			3	G2
			4	Heater
			5	Heater
			6	Cathode
			7	Anode
			<u>DIMENSIONS</u> See K1001/A1/D1	
			<u>Dimension</u>	<u>Min.</u>
			A (mm)	-
			B (mm)	137
				51

NOTE

A. Measured with $V_a = V_{g2} = 250$, and $V_{g1} = -5$.

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	4.0	-	-	-	-	Ih (A)	1.8	2.2	100%	
(b)	4.0	250	-14	250	0	Ia (mA)	-	2.0	100%	
(c)	4.0	250	-7	250	0	Ia (mA)	15.5	39.5	100%	
(d)	4.0	250	-3.5	250	0	Ia (mA)	50.0	80.0	100%	
(e)	4.0	250	-6	250	0	Reverse Ig (μ A)	-	1.5	100%	
(f)	4.0	145	0	145	-140	Ia (mA)	-	3.0	100%	