

VALVE ELECTRONIC **CV1683**GENERAL POST OFFICE: E-IN-C (S)

(POVT 115)

Specification: G.P.O./CV1683/Issue 1	<u>SECURITY</u>	
Dated: 18.11.46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Pentode			<u>MARKING</u>		
<u>CATHODE:</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:</u> Unmetallised glass					
<u>PROTOTYPE</u> MP/Pen					
<u>RATING</u>			<u>BASE</u>		
			British 7-pin (B7)		
			<u>CONNEXIONS</u>		
			Pin	Electrode	
Heater voltage (V) 4.0			1	No connection	
Nominal heater current (A) 1.0			2	G1	
Max. anode voltage (V) 250			3	G2	
Max. screen voltage (V) 250			4	Heater	
Max. anode dissipation (W) 8.0			5	Heater	
Mutual conductance (mA/V) 2.4			6	Cathode & G3	
			7	Anode	
			<u>DIMENSIONS</u>		
			See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	137
			B (mm)	-	59

NOTEA. Measured with $V_a = 250$, $V_{g2} = 200$, and $V_{g1} = -5$

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	4.0	-	-	-	-	Ih (A)	0.9	1.1	100%	1
(b)	4.0	250	-10	200	-	Ia (mA)	20.0	40.1	100%	1
(c)	4.0	250	-5	200	-	gm (mA/V)	2.4	-	100%	1
(d)	4.0	250	-10	200	-	Reverse Ig (μ A)	-	2.0	100%	1,2
(e)	4.0	250	-60	200	-	Reverse Ig (A)	-	1.0	100%	1

NOTES

1. Before commencing the tests, the valve shall be pre-heated for 5 minutes, the heater voltage being adjusted to 4 volts with all other electrodes disconnected
2. The duration of test (d) shall be at least 60 seconds.