

VALVE ELECTRONIC

CV1688

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

(PONT 120)

Specification: G.P.O./CV1688 Issue 2	<u>SECURITY</u>	
Dated: 31. 10. 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> Triode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K 1001/4			
<u>ENVELOPE:</u> Unmetallised glass							
<u>PROTOTYPE</u> 4033 L							
<u>RATING</u>				<u>BASE</u>			
				British 5-pin (B5)			
				<u>CONNEXIONS</u>			
				<u>PIN</u>		<u>ELECTRODE</u>	
Heater voltage (V) 6.0				1		Anode	
Nominal heater current (A) 1.4				2		Grid	
Max. Anode voltage (V) 600				3		Heater	
Max. Anode current (mA) 170				4		Heater	
Max. Anode dissipation (W) 25.0				5		Cathode	
Amplification factor 15.0							
Mutual conductance (mA/V) 9.0							
Anode impedance (ohms) 1670							
				<u>DIMENSIONS</u>			
				See K 1001/A1/D1			
				<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
				A (mm)		-	125
				B (mm)		-	57

NOTE

A. Measured with $V_a = 400$, and $V_{g1} = -20V$

TESTS

To be performed in addition to those applicable in K1001

	TEST CONDITIONS				TEST	LIMITS		Tested	Note
	Vh(V)	Va	Vg	Ia(mA)		Min.	Max.		
(a)	6.0	-	-	-	Ih (A)	1.25	1.55	100%	
(b)	6.0	400	-20	Read	Ia (mA)	40	70	100%	
(c)	6.0	300	Read	As in Test(b)	Vg (V)	-11.5	-15.5	100%	
(d)	6.0	300	Read	As in Test(b)	μ	12	22	100%	
		400	Read						
(e)	6.0	400	-21	Read	gm (mA/V)	6.5	-	100%	
			-20	Read					
(f)	6.0	400	Adjust	75	Reverse Ig (μ A)	-	5.0	100%	1

NOTE

- The duration of test (f) shall be 2 minutes, and the reverse grid current shall not be rising at the end of the test.