

VALVE ELECTRONIC **CV 1686**GENERAL POST OFFICE: E-IN-C (W)

(FOVT 118A)

Specification: G.P.O./CV 1686/Issue 1 Dated: 15-1-47 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> Diode		<u>MARKING</u>	
<u>CATHODE:</u> Indirectly heated		See K 1001/4	
<u>ENVELOPE:</u> Metallised glass			
<u>PROTOTYPE</u> D 418			
<u>R A T I N G</u>		<u>BASE</u>	
		British 4-pin (B4)	
		<u>CONNEXIONS</u>	
		Pin	Electrode
Heater voltage (V) 4.0		1	Cathode & metallising
Nominal heater current (A) 0.18		2	Pin omitted
Max. diode voltage (V) 200		3	Heater
Anode impedance (ohms) 2625		4	Heater
		T.C.	Diode
		<u>TOP CAP</u>	
		See K 1001/A1/D5.1	
		<u>DIMENSIONS</u>	
		See K 1001/A1/D1	
		Dimension	Min. Max.
		A (mm)	- 89
		B (mm)	- 26
<u>NOTE</u>			
A. Measured with Vd = 5.			

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	Vh(V)	Vd(V)		Min.	Max.		
(a)	4.0	-	Ih (A)	0.161	0.206	100%	
(b)	4.0	5	Ra (ohms)	2250	3000	100%	
(c)	4.0	-	Heater-Cathode Insulation (megohms)	2.0	-	1%	1
(d)	-	150	Anode-Cathode Insulation (megohms)	15.0	-	1%	.
(e)	4.0	-150	Inverse impedance (megohms)	3.0	-	100%	

NOTE

- Test (c) shall be made with :- (i) Cathode 100 volts positive with respect to the heater, and (ii) Cathode 100 volts negative with respect to the heater.