

VALVE ELECTRONIC **CV 1687**GENERAL POST OFFICE: E-IN-C (W)

(POVT 118B)

Specification: G.P.O./CV 1687/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>RATING</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) 3375	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 $V_d = 5$			

TESTS

To be performed in addition to those applicable in K 1001.

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	Vh (V)	Va (V)		Min.	Max.		
(a)	4.0	-	Ih	0.161	0.206	100%	
(b)	4.0	5	Ra	3000	3750	100%	
(c)	4.0	-	Heater-Cathode Insulation (megohms)	2	-	1%	1
(d)	-	150	Anode-Cathode Insulation (megohms)	15	-	1%	
(e)	4.0	-150	Inverse impedance (megohms)	3	-	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.