

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

(POVT 118B)

Specification: <b>G.P.O./CV 1687/Issue 1</b> Dated: <b>15-1-47</b> To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> <b>Restricted</b>	<u>Valve</u> <b>Restricted</b>

-----&gt; indicates a change

<u>TYPE OF VALVE:</u> <b>Diode</b>			<u>MARKING</u>		
<u>CATHODE:</u> <b>Indirectly heated</b>			See K 1001/4		
<u>ENVELOPE:</u> <b>Metallised glass</b>					
<u>PROTOTYPE:</u> <b>D 418</b>					
<u>RATING</u>		Note  <b>A</b>	<u>BASE</u>		
Heater voltage	(V) 4.0		British 4-pin (B4)		
Nominal heater current	(A) 0.18		<u>CONNEXIONS</u>		
Max. diode voltage	(V) 200		Pin	Electrode	
Anode impedance	(ohms) 3375		1	Cathode & metallising	
		2	Pin omitted		
		3	Heater		
		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	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%	

N O T E

- 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.