

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

(POVT 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>Note</u>		<u>B A S E</u>		
						British 4-pin (B4)		
						<u>CONNEXIONS</u>		
						<u>Pin</u>	<u>Electrode</u>	
Heater voltage (V) 4.0				A		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		
						<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
						A (mm)	-	89
						B (mm)	-	26
<u>N O T E</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.