

VALVE ELECTRONIC **CV243**GENERAL POST OFFICE: E-IN-C (S)

(POVT 145)

Specification: G.P.O./CV 243/Issue 4 Dated: 10 - 4 - 46 To be read in conjunction with K 1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>XXXXXXXXXX <i>Unclassified</i></td><td>XXXXXXXXXX <i>Unclassified</i></td></tr> </table>	SECURITY		Specification	Valve	XXXXXXXXXX <i>Unclassified</i>	XXXXXXXXXX <i>Unclassified</i>
SECURITY							
Specification	Valve						
XXXXXXXXXX <i>Unclassified</i>	XXXXXXXXXX <i>Unclassified</i>						

—————> indicates a change

<u>TYPE OF VALVE:</u> Tetrode				<u>MARKING</u>			
<u>CATHODE:</u> Directly heated				See K 1001/4			
<u>ENVELOPE:</u> Unmetallised glass							
<u>PROTOTYPE</u> 4045 A							
<u>RATING</u>				Note		<u>BASE</u>	
						British 5-pin (B5)	
Filament voltage (V) 5.0						<u>CONNEXIONS</u>	
Nominal filament current (A) 1.6						Pin	Electrode
Max anode voltage (V) 250						1	Anode
Screen grid voltage (V) 80						2	Control grid
Amplification factor 5.2						3	Filament +
Anode impedance (ohms) 3,650				A		4	Filament -
						5	Screen Grid
<u>CAPACITANCES (pF)</u>				<u>DIMENSIONS</u>			
Cag (max) 5.5				See K 1001/A1/D1			
Cae (max) 25.0				Dimension		Min.	Max
Cge (max) 27.0				A (mm)		-	165
				B (mm)		-	70
<u>NOTE</u>							
A. Measured with $V_a = 145$, $V_{g2} = 70$, and $V_{g1} = -60$							

TESTS

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

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf (DC)	Va	Vg2	Vg1		Min.	Max.		
(a)	5.0	0	0	0	If (A)	1.4	1.8	100%	
(b)	5.0	145	70	- 60	Ia (mA)	22	60	100%	
(c)	5.0	145	70	NOTE I	Change in Ia (mA)	-	3.0	100%	1
(d)	5.0	145	70	- 60	Ig 2 (mA)	-	3.0	100%	
(e)	5.0	145	NOTE 2	-100	Vg 2 (V)	40	80	100%	2
(f)	5.0	145	70	- 60	Ra "x" (ohms)	2600	4700	100%	
(g)	4.5	145	70	- 60	Ra "y" (ohms)	-	1.25"x"	100%	
(h)	5.0	145	70	- 60	μ	4.3	6.2	100%	

NOTES

1. Vg 1 = -60 V in series with 1 megohm applied to g1.
2. Vg 2 to be adjusted to give Ia = 1 mA.