VALVE ELECTRONIC CV243

(POVT 145)

GENERAL POST OFFICE: E-IN-C (S)

Specification: G.P.O./CV 243/Issue 4 Dated: 10 - 4 - 46 To be read in conjunction with K 1001	SECURITY	
	Specification	Valve
	Restricted	Restricted

——> indicates a change

TYPE OF VALVE: Tetrode
CATHODE: Directly heated
ENVELOPE: Unmetallised glass
PROTOTYPE 4045 A

MARKING

See K 1001/4

RATING			Note
Filament voltage	(V)	5.0	
Nominal filament current	(A)	1.6	
Max anode voltage	(V)	250	
Screen grid voltage	(V)	80	
Amplification factor		5.2	A
Anode impedance	(ohms)	3,650	A

CAPACITANCES (pF)			
Cag	(max)	5.5	
Cae	(max)	25.0	
Cge	(max)	27.0	

BASE

British 5-pin (B5)

CONNEXIONS

Pin	Electrode
1	Anode
2	Control grid
3	Filament +
4	Filament -
5	Screen Grid

DIMENSIONS

See K 1001/A1/D1

Dimension		Min.	Max
A	(mm)	-	165
B	(mm)	-	70

NOTE

A. Measured with Va = 145, Vg2 = 70, and Vg1 = - 60

CV243

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 1	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.