VALVE ELECTRONIC CV 1651

GENERAL POST OFFICE: E-IN-C (S) (POVT 68)

Specification: G.P.O./CV1651/Issue 1 Dated: 4.11.46 To be read in conjunction with K 1001	SECURITY Specification: Restricted	Valve: Restricted

——> indicates a change

TYPE OF VALVE: Triode
CATHODE: Directly heated
ENVELOPE: Unmetallised glass
PROTOTYPE G445B

MARKING

See K1001/4

RATING			Note
Filament current	(A)	0.45	
Nominal filament voltage	(V)	4.0	
Max. anode voltage	(V)	150	
Amplification factor		9.5	A
Mutual conductance	(mA/V)	1.9	A
Anode impedance	(ohms)	5,000	A

CAPACITANCES (pF)		
Cag	(max)	12.0
Cae	(max)	12.0
Cge	(max)	12.0

BASE

British 4-pin (B4)
See Note B.

CONNEXIONS

Pin	Electrode
1	Anode
2	Grid
3	Filament -
4	Filament +

DIMENSIONS

See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	-	133
B (mm)	-	64

NOTES

A. Measured with Va = 130, and Vg = -4

B. The plane of the anode and grid pins shall lie within 25° of the plane of the filament.

To be performed in addition to those applicable in K1001

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
						Min.	Max.		
	See K1001/AIII				CAPACITANCES (pF)				
(a)	Links to H.P.	Links to L.P.	Links to E						
	1	2	3,4,5,6,7,8,9,10,TC1,TC2		(i) Cag	-	12.0	6 per week	
	1	3,4	2,5,6,7,8,9,10,TC1,TC2		(ii) Cae	-	12.0	6 per week	
	2	3,4	1,5,6,7,8,9,10,TC1,TC2		(iii) Cge	-	12.0	6 per week	
(b)	Test Voltage 500 Volts D.C.				INSULATION (megohms) Between any two electrodes	500	-	1%	
	If (A)	Va (V)	Vg (V)	Ia (mA)					
(c)	0.45	-	-	-	Vf (V)	3.7	4.3	100%	
(d)	0.45	130	-4	-	Reverse Ig (μA)	-	0.5	100%	
(e)	0.45	130	-4	-	Ra"x" (ohms)	4000	6000	100%	
(f)	0.43	130	-4	-	Ra"y" (ohms)	-	1.2"x"	100%	1
(g)	0.45	130	-4	-	μ	8.4	10.6	100%	
(h)	0.45	100	Adjust	40	Ig (mA)	-	2.5	100%	
(i)	Read	100	100	10	If (A)	-	0.34	100%	

NOTE

1. Re-adjust If with Va = Vg = 0