VALVE ELECTRONIC **CV2194**

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

Specification: G.P.O./CV 2194/Issue 2 Dated: October, 1955 To be read in conjunction with K 1001 Excluding Clause 5.2	SECURITY Specification: Unclassified Valve: Unclassified

→ indicates a change

TYPE OF VALVE: Gas Filled Voltage Stabiliser CATHODE: Cold ENVELOPE: Glass, unmetallised PROTOTYPE G 400/1K	MARKING See K 1001/4

RATING		Note
Max. Striking Voltage (V)	400	
→ Nom. Stabilised Voltage (V)	304	
Max. Cathode Current (mA)	4	
Min. Cathode Current (mA)	2	
Voltage stability over current range (V)	±0.6	

BASE
B7G

Pin	Electrodes
1	N.C.
2	Cathode
3	I.C.
4	Anode
5	I.C.
6	Primary Anode
7	N.C.

DIMENSIONS

See K 1001/A1/D4

Dimensions	Min.	Max.
A mm	-	54
B mm	-	19.1
L mm	-	47.6

TESTS

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

	TEST CONDITIONS	TEST	Limits		No. Tested	Note
			Min.	Max.		
a.	A voltage not exceeding 300V shall be applied between anode and cathode and increased steadily at a rate not exceeding 25 volts per second until the valve strikes.	Striking Voltage (V)	-	400	100%	1
b.	Applied voltage adjusted to give cathode currents:- 1. 2mA 2. 3mA 3. 4mA	Output Voltage (V)	298	310	100%	1.2 ←
c.	Conditions as for test b.	Regulation (V) Difference between output voltage readings for b1 and b3	-	1.2	100%	1

NOTES.

1. All electrical tests shall be carried out with starting electrode and anode strapped (pins 4 and 6), and with a D.C. power supply with a ripple content not exceeding 0.5 per cent. A protective resistance of 5000 ohms shall be included in the cathode circuit for all electrical tests.

2. Output voltage limits apply to b1, b2 and b3.