VALVE ELECTRONIC CV 438

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

Specification: G.P.O. /CV438/ Issue 1

Dated: April 1949

To be read in conjunction with K 1001 ignoring

clauses 5.2 and 5.3

SECURITY
Specification Valve
Thodas Undas

______ indicates a change

PYPE OF VALVE: Gas filled stabiliser CATHODE: Cold ENVELOPE: Unmetallised glass PROTOTYPE G120/1B	MARKING See K1001/4				
RATING	BASE B4 CONNEXIONS				
Nominal breakdown voltage (V) 100 Nominal maintaining voltage (V) 55 D.C. operating current continuous (mA) Regulation 2 mA to 30mA (V) Max. peak cathode current (mA) (averaged over 1 second) Max. direct cathode current (mA) 30		Pin Electrode 1 Anode 2 Cathode 3 Not connected 4 Not connected DIMENSIONS See K1001/A1/D1			
		Dimension A (mm) B (mm)		Min.	Max. 102 35

CV 438

TESTS

To be performed in addition to those applicable in K1001

	TEST	TEST		LIMITS		No.	
	CONDITIONS			Min	Max.	Tested	Note
	Ia(mA)						
a	-	Anode breakdown voltage	(V)		120	100%	A,B,C
ъ	20	Anode maintaining voltage	(v)		65	100%	A,B
С	2 30	Anode volts "x" Anode volts "y" Difference between V "x" and V "y"	(v) (v)		7	100%	A,B,D

NOTE

- A. Test shall be carried out using a D.C. power supply with not more than 0.5 per cent ripple. A protective resistance of 5,000 ohms shall be included in the cathode circuit
- B. Voltages shall be measured directly across the valve under test.
- C. A voltage not exceeding 75 volts D.C. shall be applied to the anode and increased gradually until the valve strikes.
- D. A period of not less than 30 seconds shall be allowed to elapse after the establishment of the conditions specified, before a reading of the maintaining voltage is taken.