MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV 235**

Specification MAP/CV235/Issue 4
Dated 19.1.49
To be read in conjunction with
K1001, ignoring clauses: 5.2, 5.8.

SECURITY	
Specification	Valve
~~RESTRICTED~~ Unclassified	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE: Half wave high vacuum rectifier

CATHODE Directly heated

ENVELOPE Glass - unmetallised.

PROTOTYPE U23

RATING

			Note
Filament Voltage	(V)	4.0	
Filament Current	(A)	3.3	
Max. Applied R.M.S. Input Voltage	(kV)	1.75	
Max. No Load Peak Inverse Voltage	(kV)	4.95	
Max. D.C. Output Current per pair of valves	(mA)	500	
Max. Peak Anode Current	(mA)	1.0	
Min. Value of choke inductance for full rating.	(H)	10	

MARKING

See K.1001/4

PACKING

See K.1005

BASE

B.4

Pin	Electrode
1	No connection
2	No connection
3	Filament
4	Filament
T.C.	Anode

TOP CAP

See K.1001/AI/D5.1

DIMENSIONS

See K1001/AI/D1

Dimension		Min.	Max.
A	(mm)	165	185
B	(mm)	-	66

NOTE

The above ratings apply under conditions of choke filter input and direct switching.

CV235

TESTS

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

	Test Conditions		Test	Limits		No. Tested
	Vf(V)	Va(V)		Min.	Max.	
a	4.0 A.C. or D.C.	-	If (A)	2.7	3.6	100% or S
b	4.0 A.C. or D.C.	80 D.C. max.	Ia (mA)	360	-	100%
c	4.0 A.C. Valve to be operated in bi-phase half-wave circuit, with load to give a total D.C. output of 500mA nominal. Input choke of 10H followed by 4μF. condenser.	1750 A.C. RMS	Valve to be direct switched run for one minute and then H.T. switched off and on. There must be no indication of softness or of discharge between electrodes.			100%