MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC

CV1111

Specification MAP/CV1111 Issue 5 Dated 13.3.51 To be read in conjunction with K.1001 ignoring clauses: 5.2, 5.8.	SECURITY	
	Specification	Valve
	UNCLASSIFIED	UNCLASSIFIED

——> Indicates a change

TYPE OF VALVE - High Vacuum half-wave rectifier

CATHODE - Directly heated

ENVELOPE - Glass unmetallised

PROTOTYPE - V1907

MARKING

See K.1001/4

BASE

B4

RATING

			Note
Filament Voltage	(V)	4.0	
Filament Current (Nom.)	(A)	1.1	
Max. Applied R.M.S. Voltage	(V)	5000	A
Max. Working Peak Inverse Voltage	(V)	12,500	A
Max. No Load Peak Inverse Voltage	(V)	14,000	A
Max. Mean D.C. Rectified Current	(mA)	50	A
Max. Peak Anode Current	(mA)	350	A
Max. Reservoir Condenser	(μF)	1.2	A
Min. Limiting Resistance introduced externally	(Ω)	4000	

(Ratings apply to condenser input filter and 50 c.p.s. supply)

CONNECTIONS

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

TOP CAP

See K.1001/A1/D5.1

DIMENSIONS

See K.1001/A1/D1

Dimension	Min.	Max.
A (mm)	132	145
B (mm)	45	55
C (mm)	-	41
D (mm)	-	41

The height of the dome shall be such that the plane in which the bulb diameter is 42 mm. is between 84 and 100 mm. from the sole of the base

NOTE

A. Absolute maximum values.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vf	Va	Ia		Min.	Max.	
a	4.0 AC or DC	0	0	If (A)	-	1.2	100% or S
b	4.0 AC or DC	-	80 mA	Va (V)	-	160	100%
c	3.5 AC or DC	As in clause 'b'	-	Ia (mA)	60	-	5% (50)
d	4.0 AC	Input Voltage 5000V. R.M.S. Frequency 50 cps D.C.Load 50mA (nom.) Reservoir Condenser 1 μF. Effective Resistance per anode introduced externally 4000Ω		Load Test Run 40 secs. After first 10 secs. switch AC H.T. supply 3 times - 5 secs. off, 5 secs. on. Reject for softness or persistent flashover			100%