MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV1025**

Specification MAP/CV1025/Issue 7
Dated 20.1.49.
To be read in conjunction with K1001.

SECURITY	
Specification	Valve
RESTRICTED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Triode

CATHODE - Directly Heated

ENVELOPE - Glass - Unmetallised

PROTOTYPE - D E T 25.

MARKING

See K1001/4

PACKING

See K1005

RATING			Note
Filament Voltage	(V)	7.5	
Filament Current Range	(A)	1.0 to 3.0	
Max. Anode Voltage	(kV)	1.2	
Max. Anode Dissipation	(W)	36	
Mutual Conductance	(mA/V)	2.1	A
Anode Impedance	(Ω)	4800	A
Amplification Factor		10	A
Max. Operating Frequency	(Mc/s)	15	

CAPACITANCES (pF)	
Cae	4.5
Cge	6.0
Cag	7.0

BASE

L4

Pin	Electrode
1	Anode
2	Filament
3	Filament
4	Grid

DIMENSIONS

See K1001/AI/D1

Dimension		Min.	Max.
L	(mm)	150	160
B	(mm)	-	54

NOTE

A:- Va = 1200, Ia = 30 mA.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits Min.	Limits Max.	No. Tested
a	See K1001/AIII						
	Links to H.P.	Links to L.P.	Links to E.	CAPACITANCES (pF)			
	1	2,3	4,5,6,7, 8,9,10, TC1,TC2.	1. Cae	-	8.0	6 per
	4	2,3	1,5,6,7, 8,9,10, TC1,TC2.	2. Cge	-	10.0	week
	1	4	2,3,5,6, 7,8,9,10, TC1,TC2.	3. Cag	-	12.0	
b	Vf	Va	Ia (mA)				
	7.5	0	0	If (A)	-	3.0	100% or S
c	7.5	1200	30	Vg (V)	-74	-90	100%
d	7.5	1200	30	μ	8.3	11.7	100% or S
e	7.5	1200	30	gm (mA/V)	1.65	-	100%
f	7.5	Anode and grid strapped. A.C. voltage at 50 c.p.s. applied to give Ic = 250 mA.		Va + g (RMS) (V)	-	200	100%
g	7.5	1200	30	Reverse Ig (μA)	-	7.0	100%
h	Oscillation Test. In a circuit adjusted to 15 Mc/s approx. and with an input of 1200 V, 50 mA, Wa not exceeding 36 W, no fault shall appear in the grid seal, anode, grid or vacuum over a period of 10 minutes.						5% (20)
j	H.F. Leakage. The valve shall be inserted in an approved modified transmitter type T.1083 and the output measured at 15 Mc/s shall not be less than that of a standard valve.						5% (20)