

Specification MAP/CV1025/Issue 7 Dated 20.1.49. To be read in conjunction with K1001.	<u>SECURITY</u> <u>Specification</u> RESTRICTED <u>Valve</u> UNCLASSIFIED
---	--

→ Indicates a change

<u>TYPE OF VALVE</u> - Triode			<u>MARKING</u>		
<u>CATHODE</u> - Directly Heated			See K1001/4		
<u>ENVELOPE</u> - Glass - Unmetallised			<u>PACKING</u>		
<u>PROTOTYPE</u> - D E T 25.			See K1005		
<u>RATING</u>			<u>BASE</u>		
Filament Voltage (V)	7.5	Note A A A	L4		
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				
Anode Impedance (Ω)	4800				
Amplification Factor	10				
Max. Operating Frequency (Mc/s)	15				
<u>CAPACITANCES (pF)</u>					
C _{ae}	4.5				
C _{ge}	6.0				
C _{ag}	7.0				
			<u>DIMENSIONS</u>		
			See K1001/AI/D1		
			Dimension	Min.	Max.
			L (mm)	150	160
			B (mm)	-	54

NOTEA:- $V_a = 1200$, $I_a = 30$ mA.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
a	See K1001/AIII			<u>CAPACITANCES (pF)</u>			6 per week
	Links to H.P.	Links to L.P.	Links to E.				
	1	2,3	4,5,6,7, 8,9,10, TC1,TC2.				
	4	2,3	1,5,6,7, 8,9,10, TC1,TC2.				
	1	4	2,3,5,6, 7,8,9,10, TC1,TC2.	3. Cag	-	12.0	
b	Vf	Va	Ia (mA)	If (A)	-	3.0	100% or S
	7.5	0	0				
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 (μ A)	-	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)