

Specification MAP/CV1030/Issue 10 Dated 20.1.49. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

—→ Indicates a change

<u>TYPE OF VALVE</u> - Transmitting Triode.			<u>MARKING</u> See K1001/4		
<u>CATHODE</u> - Directly heated.			<u>PACKING</u> See K1005		
<u>ENVELOPE</u> - Glass - Double Ended.					
<u>RATING</u>			<u>CONNECTIONS</u> The Anode lead shall be brought out at the opposite end of the valve at which the filament and grid leads are brought out. All leads shall be suitably insulated and bound to the lips of the valve, and the loose ends shall be not less than six inches in length.		
		Note			
Filament Voltage (V)	12.5				
Filament Current (A)	6.3				
Max. Anode Voltage (kV)	5.0				
Max. Anode Dissipation (W)	250	A			
Mutual Conductance (mA/V)	1.35	A			
Amplification Factor	26	A			
Anode Impedance (Ω)	19,000				
Max. Operating Frequency (Mc/s)	20				
<u>NOTE</u> A:- $V_a = 2kV$, $V_g = 0$.			<u>DIMENSIONS</u> See K1001/AI/D3.		
			Dimension	Min.	Max.
			A (mm)	-	365
			B (mm)	-	125
			C (mm)	-	57
			G (mm)	-	285
			H (mm)	-	152

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vf	Va	Vg		Min.	Max.	
a	12.5	0	0	If (A)	6.0	6.6	100%
b	12.5	400	400	Ic (mA)	450	-	100%
c	12.5	2 kV.	0	Ia (mA)	58	75	100%
d	12.5	2 kV.	+ 5 to -5	Ia change (mA)	11.5	15.5	100%
e	12.5	1.8 kV. to 2.2 kV.	0	Ia change (mA)	18	25	100%
f	12.5	2 kV.	0	μ (derived from tests (d) and (e))	23	29	100%
g	12.5	Up to 5 kV. Test maintained for 5 minutes.	-	Dissipation Variation in Vg, after first 3 minutes, necessary to maintain dissipation of 250W (V)	-	10	100%
h	12.5	500	0 to + 200	Grid Secondary Emission Any fall of Ig expressed as a percentage of max. value attained.	-	30%	100%
j	Oscillation Test. The valve shall be tested in a suitable oscillatory circuit at a frequency of 3 ± 0.15 Mc/s. The input shall be 5 kV, 150 mA, and the output current shall not be less than 3 A. Under these conditions the anode dissipation shall not exceed 250 W.						100%