

Specification MAP/CV1031/Issue 10 Dated 6.1.49 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> - Transmitting Tetrode <u>CATHODE:</u> - Directly Heated <u>ENVELOPE:</u> - Glass- Double-ended <u>COMMERCIAL</u> <u>PROTOTYPE:</u> - S.G. 250			<u>MARKING</u> See K1001/4	
			<u>PACKING</u> See K1005	
			<u>BASE</u> None	
<u>RATING</u>		Note	<u>CONNECTIONS</u>	
Filament Voltage (V)	11.25		The anode lead shall be brought out at one end of the valve and the remaining leads at the other end. All leads shall be securely bound in their insulating sleeves to the lips of the valve, and shall be of the following lengths (clear of bindings) and colour:- Filament (Black) 7.5 ins. Screen Grid (Red) 7.5 ins. Control Grid (Green) 11 ins. Anode (Red) 11 ins. The insulating sleeveings shall terminate 1 inch from the end of each lead.	
Filament Current (A)	8.0			
Max. Anode Voltage (kV)	5.0			
Max. Anode Dissipation (W)	250			
Mutual Conductance (mA/V)	1.0	A		
Amplification Factor	100	A		
<u>NOTES</u> A. $V_a = 3kV$, $V_{g2} = 600$, $V_{g1} = -40$.			<u>DIMENSIONS</u> See K1001/A1/D3	
			Dimension	Min. Max.
			A (mm)	355 395
			B (mm)	158 168
			C (mm)	60 66
			F (mm)	48 -
			G (mm)	355 365

TESTS

To be performed in addition to those applicable in K1001.

Clause	Test Conditions					Test	Limits		No. Tested
							Min.	Max.	
	Vf	Va	V _{g2}	V _{g1}	Ia(mA)				
(a)	See K1001/AIII					Cag (pF)	-	1.7	6 per wk
(b)	11.25	0	0	0	-	If (A)	7.6	8.9	100%
(c)	11.25	3000	600	-	83	<u>Dissipation Test</u> 1. There shall be no sparking between pinch leads or loss of emission. 2. At end of test reverse I _{g1} (μA)	-	20	100%
	Conditions maintained for 10 minutes.								
(d)	11.25	3000	600	-120	-	Ia (mA)	-	20	100%
(e)	11.25	3000	600	-30 to -32	-	gm (mA/V)	1.0	-	100%
(f)	11.25	Ad-just for re-quired Ia	600	-30	-	μ	100	-	100%
(g)	11.25	3000	up to 1100	-41	-	Reverse I _{g2} (mA)	-	2	100%
(h)	11.25	3000	1000	-41	-	I _{g2}	To be +ve		100%
(j)	11.25	Anode and grids strapped 450v. max. applied only for sufficient time to observe required reading.				Ic (mA)	450	-	100%