

Specification <u>MAP/CV18/Issue 7</u> Dated 22.1.50. 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> - Double Triode		<u>MARKING</u>	
<u>CATHODE</u> - Indirectly Heated		See K1001/4	
<u>ENVELOPE</u> - Glass - Unmetallised		<u>PACKING</u>	
<u>COMMERCIAL PROTOTYPE</u> - 4074A. DET19. RK34.		See K1005.	
		<u>BASE</u>	
		USM.7	
		<u>CONNECTIONS</u>	
		Pin	Electrode
		1	Heater
		2	No connection
		3	Grid 1
		4	Cathode
		5	Grid 2
		6	No connection
		7	Heater
		TC1	Anode 1
		TC2	Anode 2
		<u>PLUG TOP CAP</u>	
		See K1001/AI/D5.1 and drawing on page 3.	
		<u>DIMENSIONS</u>	
		See K1001/AI/D1	
		Dimension	Min.      Max.
		A mm	-          130
		B mm	-          46
		C mm	-          35
		<u>NOTES</u>	
A. $V_a = 250$ , $V_g = -7$ .			
B. These figures apply to each half of the valve.			

To be performed in addition to those applicable in K1001.

Test Conditions				Test	Limits		No. Tested	Notes
See K1001/AIII					Min.	Max.		
a	Links to H.P.	Links to L.P.	Links to E.	Links Omitted.	Total Capacitance (pF) A1G2 to A2G4	6.4	9.0	6 per week
	TC1,5	TC2,3	2,6,8,9,10	1,4,7.				

Before the valves are subjected to the following tests they shall be preheated for a period of 5 minutes with Vf-6.5V.

	Vh	Va	Vg	Ia(mA)				
b	6.3	0	0	-	Ih (A)	0.7	0.9	100% or S
c	6.3	250	-7	-	Ia (mA)	13.5	27.0	100% 1
d	6.3	250	-7	-	Reverse Ig (μA)	-	3	100% 1
e	6.3	250	-7	-	μ	12.5	16.0	100% or S 1
			Peak grid swing ±1V. max.					
f	6.3	250	-7	-	gm (mA/V)	2.2	3.45	100% 1
			Peak grid swing ±1V. max.					
g	6.3	250	-	0.1	1. Vg	-	-50	100% 1
					2. Difference between readings for each half of valve (V).	-	10	100%
h	6.3	Strapped. 50V.R.M.S. at 50 c/s applied.		-	Mean Ic (mA)	60	-	100% 1
j	Valves shall be tested to ensure that no appreciable coupling exists between the grid of one section and the anode of the other. The nature of the test can be determined by the manufacturer.							1% (20)

Note 1. Tests c,d,e,f,g,1 and h shall be applied to each half of the valve.

