

Specification MAP/CV1081/Issue 7 Dated 25.1.49 To be read in conjunction with K1001.		<u>SECURITY</u> <table border="1"> <tr> <td><u>Specification</u> RESTRICTED</td> <td><u>Valve</u> UNCLASSIFIED</td> </tr> </table>		<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED												
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→ Indicates a change																	
<u>TYPE OF VALVE</u> Pentode <u>CATHODE</u> Directly heated Thoriated Tungsten <u>ENVELOPE</u> Unmetallised <u>PROTOTYPE</u> 4052A.		<u>MARKING</u> See K.1001/4 <u>PACKING</u> See K.1005															
<u>RATING</u>		<u>BASE</u> USM5 (Ceramic)															
Filament Voltage (V) 7.5 Filament Current (A) 3.0 Max. Anode Voltage (kV) 1.5 Max. Screen Voltage (V) 300 Max. Suppressor Voltage (V) 45 Max. Anode Dissipation (W) 60 Max. Screen Dissipation (W) 20 Mutual Conductance (mA/V) 3.0 Anode Impedance (M Ω) 0.5 Amplification Factor 1500 Max. Operating Frequency (Mc/s) 30 Max. Operating Frequency (Mc/s) 60		Note	<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Filament</td> </tr> <tr> <td>2</td> <td>Screen Grid</td> </tr> <tr> <td>3</td> <td>Control Grid</td> </tr> <tr> <td>4</td> <td>Suppressor Grid</td> </tr> <tr> <td>5</td> <td>Filament</td> </tr> <tr> <td>T.C.</td> <td>Anode</td> </tr> </tbody> </table>	Pin	Electrode	1	Filament	2	Screen Grid	3	Control Grid	4	Suppressor Grid	5	Filament	T.C.	Anode
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<u>NOTES</u> A: At $V_a = 1250$, $V_{g1} = -13.0$, $V_{g2} = 300$, $V_{g3} = 0$. B: At $V_a = 900$, $W_a = 35$.		<u>TOP CAP</u> See K.1001/AI/D5.7															
		<u>DIMENSIONS</u> See K.1001/AI/D1															
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TESTS

To be performed in addition to those applicable in K.1001.

Test Conditions							Test	Limits		No. Tested	
	Vf (AC)	Va	Vg2	Vg3	Vg1	Ia (mA)		Min.	Max.		
a	7.5	0	0	0	0	0	I _f (A)	2.8	3.4	100%	
b	7.5	Anode and grids strapped. 750 volts applied. Condition Method 3 K1001/AY						I _c (A)	1.75	-	100%
c	7.5	1500	300	0	--	50	Reverse I _g after 3 minutes (μA) This value must not increase in remaining 2 mins.	-	10	100%	
d	7.5	1500	300	0	-32	-	I _a (mA)	-	5	100%	
e	7.5	1500	300	0	-15	-	I _a (mA)	23	37	100%	
f	7.5	1500	300	0	-20	-	I _a (mA)	10	20	100%	
g	7.5	1500	300	0	-15 to -20	-	I _a change (mA)	13	17	100%	
h	7.5	1500	300	0	-15	-	I _{g2} (mA)	4.0	8.5	100%	
j	7.5	1500	300	+20	-16	-	I _a (mA)	23	35	100%	
k	7.5	1500	300	+20 to -100	-16	-	I _a change (mA)	2	5	100%	
l	Conditions as in test (j) and (k)							I _{g3} (mA)	-	1.0	100%