

Specification MAP/CV1080/Issue 4. Dated 5.3.47. To be read in conjunction with K1001.	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u> RESTRICTED</td><td><u>Valve</u> RESTRICTED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED
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—————> Indicates a change

<u>TYPE OF VALVE</u> - Pentode				<u>MARKING</u> See K1001/4			
<u>CATHODE</u> - Directly heated							
<u>ENVELOPE</u> - Glass - unmetallised							
<u>PROTOTYPE</u> - 4307A							
<u>RATING</u>			<u>Note</u>	<u>BASE</u> B7			
Filament Voltage	(V)	5.5	A A	<u>Pin</u>	<u>Electrode</u>		
Filament Current	(A)	1.0		1	Control grid		
Max. Anode Voltage	(V)	700		2	Suppressor grid		
Max. Screen Voltage	(V)	300		3	Screen grid		
Max. Anode Dissipation	(W)	15		4	Filament		
Mutual Conductance	(mA/V)	4.2		5	Filament		
Inner Amplification Factor		7.0		6	No connection		
Max. Operating Frequency	(Mc/s)	10.0		7	No connection		
				T.C.	Anode		
<u>NOTE</u> A. $V_a = V_{g2} = 250.$, $V_{g1} = -20.$				<u>TOP CAP</u> See K1001/AI/D5.1			
				<u>DIMENSIONS</u> See K1001/AI/D1			
				<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
				A	(mm)	-	152.5
				B	(mm)	-	54

To be performed in addition to these applicable in K1001.

	Test Conditions						Test	Limits		No. Tested	Notes
	Vf	Va	Vg2	Vg1	Vg3	Ia(mA)		Min.	Max.		
a	5.5	0	0	0	0	0	If (A)	0.95	1.15	100% or S	
b	5.5	250	250	-	0	60	Reverse Ig (μ A)	-	5.0	100%	1
c	5.5	250	250	-20	0	-	Ia (mA)	35.0	65.0	100%	
d	5.5	250	250	-20	0	-	Ig2 (mA)	3.0	8.0	100% or S	
e	5.5	250	250	-20	0	-	gm (mA/V)	2.9	5.0	100%	
		Peak grid swing $\pm$ 1V. max.									
f	5.5	250	250	-20	0 to -20	-	Ia drop (mA)	5.0	-	100%	
g	5.5	250	250	-20	0	-	Inner μ	6.0	8.0	100% or S	2
h	5.5 to 5.0	250	250	-20	0	-	Ia drop (mA)	-	6.0	100%	

NOTES

1. In test 'b' the valve shall be run for a period of 2 minutes before the grid current measurement is made.
2. In test 'g' the anode and screen can be strapped and connected to a common H.T. supply.