

Specification MAP/CV1051/Issue 6 Dated 10.9.46. To be read in conjunction with K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification RESTRICTED</td><td>Valve RESTRICTED</td></tr> </table>	SECURITY		Specification RESTRICTED	Valve RESTRICTED
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—————> Indicates a change

<u>TYPE OF VALVE</u> - Pentode				<u>MARKING</u>		
<u>CATHODE</u> - Directly Heated - oxide coated				See K1001/4		
<u>ENVELOPE</u> - Glass - Unmetallised						
<u>PROTOTYPE</u> - PEN 220A						
<u>RATING</u>				<u>BASE</u>		
				B5		
				<u>Note</u>		
Filament Voltage	(V)	2.0	A B	<u>Pin</u>	<u>Electrode</u>	
Filament Current	(A)	0.2		1	Anode	
Maximum Anode Voltage	(V)	150		2	Control Grid	
Maximum Screen Voltage	(V)	150		3	Filament Negative and Suppressor Grid	
Maximum Anode Dissipation	(W)	3		4	Filament Positive	
Mutual Conductance	(mA/V)	2.5		5	Screen Grid	
Anode Current	(mA)	18				
Optimum Load Resistance	(Ω)	6,000				
Maximum Operating Frequency	(Mc/s)	7		<u>DIMENSIONS</u>		
				See K1001/Al/D1		
<u>CAPACITANCES</u> (pF)				<u>Dimensions</u>		
C _{ae}		10.5		Min.	Max.	
C _{ge}		11.0		A (mm)	-	115
C _{ag}		1.5				
<u>NOTES</u>				Diameter of valve not to exceed 44 mm. up to 71.5 mm from bottom of base.		
A. V _a = 100, V _{g2} = 100, V _{g1} = 0						
B. V _a = 150, V _{g2} = 150, V _{g1} = -9						

To be performed in addition to those application in K1001.

Test Conditions					Test	Limits		No. Tested
						Min.	Max.	
a	See K1001/AIII				Capacitances(pF)			6 per week
	Links to H.P.	Links to L.P.	Links to E.					
	1	3,4,5	2,6,7,8,9,10,TC1,TC2	C _{ae}	-	10.5		
	2	3,4,5	1,6,7,8,9,10,TC1,TC2	C _{ge}	-	11.0		
	1	2	3,4,5,6,7,8,9,10,TC1, TC2.	C _{ag}	-	1.5		
b	V _f	V _a	V _{g2}	V _{g1}	I _f (A)	0.18	0.23	100% or S
	2.0	0	0	0				
c	2.0	120	120	-9	I _a (mA)	8.0	13.5	100%
d	2.0	25	120	0	I _a (mA)	21.5	-	100%
e	2.0	120	120	-9	I _{g2} (mA)	1.6	3.0	100% or S
f	2.0	120	120	-9	Reverse I _{g1} (uA)	-	1.0	100%
g	2.0	120	120	-8 to -10	g _m (mA/V)	1.55	2.15	100%
h	2.0 - 1.8	120	120	-9	I _a drop (mA)	-	1.0	100%