

Specification MAP/CV1108/Issue 4 Dated 11.9.47. To be read in conjunction with K1001	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>RESTRICTED</td><td>UNCLASSIFIED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	RESTRICTED	UNCLASSIFIED
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
RESTRICTED	UNCLASSIFIED						

→ Indicates a change

<u>TYPE OF VALVE</u> : H.F. Pentode				<u>MARKING</u> See K1001/4.			
<u>CATHODE</u> : Indirectly heated							
<u>ENVELOPE</u> : Glass-umetallised							
<u>PROTOTYPE</u> : 8D2							
<u>RATING</u>			Note	<u>BASE</u> B7			
Heater Voltage	(V)	13.0	A A A	Pin	Electrode		
Heater Current	(A)	0.2		1	No connection		
Max. Anode Voltage	(V)	250		2	Anode		
Max. Screen Voltage	(V)	125		3	Suppressor		
Mutual Conductance	(mA/V)	1.25		4	Heater		
Anode Impedance	(M Ω)	1.5		5	Heater		
Amplification Factor		1900		6	Cathode		
				7	Screen grid		
				T.C.	Control grid		
<u>CAPACITANCES (pF)</u>					<u>TOP CAP</u> See K1001/AL/D5.1		
Cag (max.)		0.025					
Cae		13.0					
Cge		4.7					
<u>NOTE</u> A. At Va = 250, Vg2 = 100, Vg1 = -3.0, Ia = 2.3mA.				<u>DIMENSIONS</u> See K1001/AL/D1			
				Dimension		Min.	Max.
				A (mm)		108	117
				B (mm)		-	39
				C (mm)		-	35

To be performed in addition to those applicable in K1001

a	Test Conditions					Test	Limits		No. Tested
	See K1001/AIII						Min.	Max.	
	Links to H.P.	Links to L.P.	Links to E.			Capacitances (pF)	-	0.025	T.A.
	2	TC1	1,3,4,5, 6,7,8,9, 10, TC2.						
	2	1,3,4,5, 6,7.	8,9,10, TC1,TC2.			Cae	11.5	14.5	6 per week
	TC1	1,3,4,5, 6,7.	2,8,9,10 TC2.			Cge	4.2	5.2	
b	Vh	Va	Vg2	Vg1	Vg3	Ih (A)	0.18	0.22	100% or S
	13.0	0	0	0	0				
c	13.0	250	100	-3.0	0	Ia (mA)	1.3	3.3	100%
d	13.0	250	100	-3.0	0	Ig2 (mA)	0.1	1.0	100% or S
e	13.0	250	100	-3.0	0	Reverse Ig (μA)	-	2.0	100%
f	13.0	250	100	-3.0	0	gm (mA/V)	1.0	1.5	100%
Peak grid swing ±0.5V. max.									
g	13.0	30	30	30	30	Io (mA)	50	-	100%