

Specification MAP/CV1108/Issue 4 Dated 11.9.47. 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> : H.F. Pentode <u>CATHODE</u> : Indirectly heated <u>ENVELOPE</u> : Glass-unmetallised <u>PROTOTYPE</u> : 8D2			<u>MARKING</u> See K1001/4.			
<u>RATING</u>		Note	<u>BASE</u> B7			
Heater Voltage (V)	13.0		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	A	4	Heater		
Anode Impedance (MΩ)	1.5	A	5	Heater		
Amplification Factor	1900	A	6	Cathode		
<u>CAPACITANCES</u> (pF)			7	Screen grid		
Cag (max.)	0.025		T.C.	Control grid		
Cae	13.0		<u>TOP CAP</u> See K1001/AI/D5.1			
Cge	4.7		<u>DIMENSIONS</u> See K1001/AI/D1			
<u>NOTE</u>			<u>DIMENSIONS</u>			
A. At $V_a = 250$, $V_{g2} = 100$, $V_{g1} = -3.0$, $I_a = 2.3\text{mA}$.			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)			
	2	TC1	1,3,4,5,6,7,8,9,10, TC2.			Cag	-	0.025	T.A.
	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)	0.4	1.0	100% or S
e	13.0	250	100	-3.0	0	Reverse Ig (μ A)	-	2.0	100%
f	13.0	250	100	-3.0	0	gm (mA/V)	1.0	1.5	100%
	Peak grid swing $\pm 0.5V$. max.								
g	13.0	30	30	30	30	Ic (mA)	50	-	100%