

Specification MAP/CV1125/ Issue 4 Dated 4.3.47. To be read in conjunction with K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>RESTRICTED</td><td>RESTRICTED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	RESTRICTED
SECURITY							
Specification	Valve						
RESTRICTED	RESTRICTED						

—————> 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 - metallised.						
<u>PROTOTYPE</u> - MS/PEN.B						
<u>RATING</u>			Note	<u>BASE</u> B7		
Heater Voltage (V)	4.0	A A		Pin	Electrode	
Heater Current (A)	1.0		1	Metallising		
Max. Anode Voltage (V)	250		2	Anode		
Max. Screen Voltage (V)	125		3	Suppressor grid		
Max. Anode Dissipation (W)	3.0		4	Heater		
Max. Screen Dissipation (W)	1.0		5	Heater		
Max. Grid Resistance (MΩ)	2.0		6	Cathode		
Mutual Conductance (mA/V)	2.8		7	Screen grid		
Anode Impedance (MΩ)	0.6		T.C.	Control grid		
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u> See K1001/AI/D5.1			
Cae	9.0		<u>DIMENSIONS</u> See K.1001/AI/D1.			
Cge	9.0		Dimension	Min.	Max.	
Cag (max.)	0.005		A (mm)	-	127	
<u>NOTE</u> A. Va = 250V, Vg2 = 125V, Vg1 = -2.0V, Ia = 5.4mA.			B (mm)	-	45	

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
a	See K1001/AIII				<u>CAPACITANCES(pF)</u>			6 per week
	Links to HP	Links to LP	Links to E					
	2	1,3,4, 5,6,7	8,9,10, TC1,TC2		Cae	-	11.0	
	TC1	1,3,4, 5,6,7	2,8,9, 10,TC2		Cge	-	10.0	
	2	TC1	1,3,4, 5,6,7, 8,9,10, TC2		Cag	-	0.005	
	Vh	Va	Vg2	Vg1	Ih (A)	0.9	1.1	100% or S
b	4.0	0	0	0				
c	4.0	200	100	-1.5	Ia (mA)	3.2	6.4	100%
d	4.0	200	100	-1.5	gm (mA/V)	2.2	-	100%
		Peak grid swing ±0.5V. max.						
e	4.0	200	100	-1.5	Ig2 (mA)	-	2.0	100% or S
f	4.0	200	100	-1.5	Reverse Ig1(μA)	-	1.0	100%
g	4.0	200	100	-6.0	Ia (mA)	-	0.2	100%