

Specification MAP/CV1129/Issue 5 Dated 17.9.47. 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>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	UNCLASSIFIED
SECURITY							
Specification	Valve						
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-unmetallised																								
<u>PROTOTYPE</u> - MS/Pen T.																								
<u>RATING</u>				<u>BASE</u> B7																				
				Note																				
Heater Voltage (V)				4.0	<table><tr><td>Pin</td><td>Electrode</td></tr><tr><td>1</td><td>No connection</td></tr><tr><td>2</td><td>Control grid</td></tr><tr><td>3</td><td>Suppressor grid</td></tr><tr><td>4</td><td>Heater</td></tr><tr><td>5</td><td>Heater</td></tr><tr><td>6</td><td>Cathode</td></tr><tr><td>7</td><td>Screen grid</td></tr><tr><td>T.C.</td><td>Anode</td></tr></table>		Pin	Electrode	1	No connection	2	Control grid	3	Suppressor grid	4	Heater	5	Heater	6	Cathode	7	Screen grid	T.C.	Anode
Pin	Electrode																							
1	No connection																							
2	Control grid																							
3	Suppressor grid																							
4	Heater																							
5	Heater																							
6	Cathode																							
7	Screen grid																							
T.C.	Anode																							
Heater Current (A)				1.0																				
Max. Peak Anode Voltage (kV)				4.0																				
Max. Screen Voltage (V)				125																				
Max. Anode Dissipation (W)				3.0																				
Max. Screen Dissipation (W)				1.0																				
Max. Grid Resistance (MΩ)				2.0																				
Mutual Conductance (mA/V)				2.8																				
Anode Impedance (MΩ)				0.6																				
<u>CAPACITANCES (pF)</u>																								
C _{ae}				5.0	<u>TOP CAP</u> See K1001/AI/D5.1																			
C _{ge}				12.0																				
C _{ag} (max.)				0.02																				
<u>NOTE</u> A. V _a = 250, V _{g2} = 125, V _{g1} = -2.0, I _a = 5.4mA.				<u>DIMENSIONS</u> See K1001/AI/D1.																				
				Dimension		Min.	Max.																	
				A	(mm)	120	126																	
				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					CAPACITANCES (pF)			6 per week
	Links to H.P.	Links to L.P.		Links to E.					
	TC1	1,3,4,5,6,7		2,8,9,10, TC2			C _{ae}	- 6.0	
	2	1,3,4,5,6,7		8,9,10, TC1, TC2			C _{ge}	- 15.0	
	TC1	2		1,3,4,5,6, 7,8,9,10, TC2			C _{ag}	- 0.02	
	V _h	V _a	V _{g2}	V _{g1}	I _a (mA)				
b	4.0	0	0	0	0	I _h (A)	0.9	1.1	100% or S
c	4.0	200	100	-1.5	-	I _a (mA)	3.2	6.4	100%
d	4.0	200	100	-1.5	-	I _{g2} (mA)	-	2.0	100% or S
e	4.0	200	100	-1.5	-	g _m (mA/V)	2.2	3.4	100%
	Peak grid swing ±0.5V. max.								
f	4.0	200	100	-1.5	-	Reverse I _{g1} (μA)	-	1.0	100%
g	4.0	200	100	-6.0	-	I _a (mA)	-	0.2	100%
h	4.0	-	100	Tied to cathode thro' 0.1MΩ	2.0	V _a (V)	-	9.0	100%
j	4.0	3kV. thro' 1.0MΩ	100	-15	-	I _a (μA)	-	1.0	100%
k	4.0	4kV. thro' 1.0MΩ	100	-15	-	No discharge or sparking shall occur			100%