

Specification MAP/CV329 Issue 3 Dated 6.3.51 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>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
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Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

→ Indicates a change

<u>TYPE OF VALVE</u> - Miniature H.F. Pentode with Suppressor diode (Note C)				<u>MARKING</u> See K.1001/4.1	
<u>CATHODE</u>		- Indirectly heated			
<u>ENVELOPE</u>		- Glass - unmetallised			
<u>PROTOTYPE</u>		- VX.6025			
<u>RATING</u>			Note	<u>BASE</u> B7C	
Heater Voltage (V)			6.3		
Heater Current (A)			0.35		
Max. Operating Anode Voltage (V)			300	A	
Max. Anode Voltage(I _{am} =0) (V)			550	A	
Max. Operating Screen Voltage (V)			300	A	
Max. Screen Voltage(I _{am} =0) (V)			400	A	
Max. Anode Dissipation (W)			3.0	A	
Max. Screen Dissipation (W)			0.9		
Mutual Conductance (mA/V)			3.8	B	
Inner μ			40		
<u>CAPACITANCES (pf)</u>					
C _{ag}			00085	C	
C _{as}			4.5	C	
C _{ge}			7.4	C	
				<u>CONNECTIONS</u>	
				Pin	Electrode
				1	Control Grid
				2	Cathode
				3	Heater
				4	Heater
				5	Anode
				6	Suppressor grid and Diode
				7	Screen grid
				<u>DIMENSIONS</u> See K.1001/A1/D4.	
				Dimension	Min. Max.
				A mm	- 54.01
				B mm	- 19.05
				L mm	- 47.75
				F mm	34.04 42.16

NOTES

- Absolute maximum values
- At V_a = 200, V_{g2} = 100, I_c = 10mA, V_{g3} = 0.
- Measured with close fitting metal screen.
- This valve has a limiting diode internally connected to the suppressor grid.

To be performed in addition to those applicable in K.1001.

Test Conditions							Test	Limits		No. Tested
								Min.	Max.	
a	In Adaptor Type 124 See K.1001/AlII						Capacitances (pF)			6 per week
	Links to H.P.	Links to L.P.	Links to E.							
	5	2,3,4,6,7, 8,9.	1,10, TC1, TC2	Gas	3.9	5.2				
	1	2,3,4,6,7, 8,9.	5, 10, TC1, TC2	Oge	6.5	8.6				
						Cag	-	.015	T.A.	
	Vh	Va	Vg2	Vg3	Vg1	Io (mA)				
b	6.3	0	0	0	0	0	Ih (A)	0.31	0.39	100% or S
c	6.3	200	200	0	-	10	Vg1 (V)	2.85	4.75	100%
d	6.3	200	200	0	-	10	Ig2 (mA)	3.0	4.6	100% or S
e	6.3	200	200	0	-	10	Reverse Ig1 (μA)	-	0.5	100%
f	6.3	200	200	0	-	10	gm (mA/V)	3.0	5.0	100%
g	6.3	200	100	to give Ia = 0.1 mA	to give Ic= 10mA when Vg3=0	-	Vg3 (V)	5.0	11.5	100%
h	6.3	200	200	+20	-30	-	Ig3 (mA)	2.5	-	100%
j	6.3	200	200	0	to give Ia = 100μA	-	Vg1 (V)	-	12.0	100% or S
k	6.3	200	200	0	-	10	Vg2 change (V)	32	48	20 per week
Reduce Vg1 by 1.0 volt and reduce Vg2 to maintain Ic = 10 mA.										