

Specification MAP/CV329 Issue 3 Dated 6.3.51 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> 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>BASE</u> B7G		
<u>RATING</u>		Note		
Heater Voltage (V)	6.3	A A A A A B C C	<u>CONNECTIONS</u>	
Heater Current (A)	0.35			
Max. Operating Anode Voltage (V)	300		Pin	Electrode
Max. Anode Voltage (I _a =0) (V)	550		1	Control Grid
Max. Operating Screen Voltage (V)	300		2	Cathode
Max. Screen Voltage (I _a =0) (V)	400		3	Heater
Max. Anode Dissipation (W)	3.0		4	Heater
Max. Screen Dissipation (W)	0.9		5	Anode
Mutual Conductance (mA/V)	3.8	6	Suppressor grid and Diode	
Inner μ	40	7	Screen grid	
<u>CAPACITANCES (pf)</u>		<u>DIMENSIONS</u>		
C _{ag}	0.0085	See K.1001/A1/D4		
C _{as}	4.5	Dimension	Min. Max.	
C _{gs}	7.4	A mm	- 54.01	
		B mm	- 19.05	
		L mm	- 47.75	
		F mm	34.04 42.16	

NOTES

- A. Absolute maximum values
- B. At V_a = 200, V_{g2} = 100, I_c = 10mA, V_{g3} = 0.
- C. Measured with close fitting metal screen.
- D. 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								
	1	2,3,4,6,7, 8,9.	5, 10, TC1, TC2				Cas	3.9	5.2		
							Cgs	6.5	8.6		
							Cag	-	.015	T.A.	
	Vh	Va	Vg2	Vg3	Vg1	Ic (mA)					
b	6.3	0	0	0	0	0	Ih (A)	0.31	0.39	100% or 3	
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 3	
e	6.3	200	200	0	-	10	Reverse Ig1 (mA)	-	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 3	
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.											