

Specification MAP/CV222/Issue 2 Dated 19.1.49. To be read in conjunction with K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></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> - Double R.F. Beam Power Amplifier			<u>MARKING</u> CV222	
<u>CATHODE</u> - Indirectly heated			<u>PACKING</u> See K1005	
<u>ENVELOPE</u> - Glass - lower portion in metal shell			<u>BASE</u> B9G (Note G)	
<u>RATING</u>		Note	Pin	Electrode
Heater Voltage (V)	6.3	A	1	Heater
Heater Current (A)	1.6		2	Control grid (1)
Max. Anode Voltage (V)	350		3	Cathode and internal shield
Max. Screen Voltage (V)	250		4	Anode (1)
Max. Anode Dissipation (per anode) (W)	7.5		5	Screen grid
Max. Total Screen Dissipation (W)	2.6		6	Anode (2)
Mutual Conductance (mA/V)	3.9		7	Cathode and internal shield
			8	Control grid (2)
			9	Heater
<u>CAPACITANCE</u> (pF)			<u>DIMENSIONS</u> (mm)	
1. Cae	5.0		See K1001/AI/D2 with the following exceptions:-	
2. Cge	9.5			
3. Cag	0.13			

NOTES

- A - At $V_a = 250v$, $V_{g2} = 135v$, $I_a = 30mA$.
- b - The valve has a bakelite sole plate and spigot and therefore circuit designers should arrange a suitable earth connection for the metal skirt around the base of the valve.
- C - The groove on the spigot is optional.

To be performed in addition to those applicable in K1001

Clause	Test Conditions					Test	Limits		No. Tested
							Min.	Max.	
(a)	Measured using Adaptor Type 125, Ref. 10AD/24 See K1001/AIII					Capacitance (pF)			
	Links to H.P.	Links to L.P.	Links to E						
	4	2	1,3,5,6,7,8,9,10,TC1,TC2.			1. Ca1g1	-	0.18	T/A
	4	1,3,5,6,7,8,9,10.	2,TC1,TC2.			2. Ca1e	-	7.0	6 per week
	2	1,3,5,6,7,8,9,10.	4,TC1,TC2.			3. Cg1e	-	11.0	6 per week
	6	8	1,2,3,4,5,7,9,10,TC1,TC2.			4. Ca2g2	-	0.18	T/A
	6	1,2,3,4,5,7,9,10.	8,TC1,TC2.			5. Ca2e	-	7.0	6 per week
	8	1,2,3,4,5,7,9,10.	6,TC1,TC2.			6. Cg2e	-	11.0	6 per week
(b)	Vh(v)	Va(v)	Vg2(v)	Vg1(v)	Ia(mA)				
	6.3	0	0	0	0	Ih (A)	1.44	1.76	100% or S
(c)	6.3	250	135	-	30	Vg (V)	-9.8	-18.2	100%
(d)	6.3	250	135	-	30	Ig2 (mA)	-	5.0	100% or S
(e)	6.3	250	135	-	30	gm (mA/V)	2.9	4.9	100%
	Peak grid swing $\pm 1V.$ max.								
(f)	6.3	250	135	-	30	Reverse Ig1 (μA)	-	2.0	100%
(g)	6.3	250	135	-50	-	Ia (mA)	-	1.0	100%
(h)	6.3	250	250	-100D.C +100V. Peak AC at 50 ~ sinu-soidal	-	Mean Ia (mA)	25	-	100%

NOTE

Tests (c), (e), (f), (g) and (h) to be made on each system separately, a bias of -50 volts being applied to the system not being tested.