

Specification MAP/CV 78/Issue 4. Dated 15.1.49 To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE:</u> Grounded anode triode		<u>MARKING</u> See K1001/4			
<u>CATHODE:</u> Indirectly heated.		<u>PACKING</u> See K1005			
<u>ENVELOPE:</u> Glass - Lower portion enclosed in metal can.					
<u>RATING</u>		<u>BASE</u> B9G			
		Note			
Heater Voltage (V)	6.3	Pin	Electrode		
Heater Current (A)	0.6				
Max. Anode Voltage (V)	250				
Max. Anode Dissipation with grid leak less than 1000Ω (W)	8.0				
Max. Anode Dissipation with grid leak greater than 1000Ω (W)	4.0				
Mutual Conductance (mA/V)	15			1	Heater
Amplification factor	50			2	Anode
Anode Impedance (Ω)	3100			3	Anode
Efficiencies as Oscillator obtained at various wavelengths in a representative circuit.				4	Control grid
Efficiency at 50 cms.	4%			5	Control grid
60	12%	6	Anode		
70	18%	7	Anode		
80	23%	8	Cathode		
90	27%	9	Heater		
100	30%	<u>DIMENSIONS</u> See K1001/A1/D2			
		Dimension	Min. Max.		
		E (mm)	53.5 62		
<u>CAPACITANCES (pF)</u>					
C <sub>ag</sub>	7.4	B			
C <sub>a (c+h)</sub>	6.0	B			
C <sub>g (c+h)</sub>	5.7	B			

NOTEA:-  $V_a = 250V.$ ,  $I_a = 32mA.$ 

B:- Measured with spigot connected to anode.

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested					
						Min.	Max.						
a	To be measured using adaptor Type 39. Ref. 10A/13335				<u>CAPACITANCES</u> (PF)	1. C <sub>ag</sub>	6.3	8.5	6				
	See K1001/AIII												
	Links to H.P.	Links to L.P.	Links to E							2. C <sub>a</sub> (c+h)	5.1	6.9	per week
	2,3,6,7 10	4,5	1,8,9 TC1, TC2.										
	2,3,6,7 10	1,8,9	4,5 TC1, TC2.										
4,5	1,8,9	2,3,6,7 TC1, TC2.		3. C <sub>g</sub> (c+h)	4.8	6.6							
b	V <sub>h</sub>	V <sub>a</sub>	V <sub>g</sub>	(I <sub>a</sub> (mA))	I <sub>h</sub> (A)	0.54	0.66	100% or S					
	6.3	0	0	0									
c	6.3	250	-	32	V <sub>g</sub> (V)	1.4	3.2	100%					
d	6.3	250	grid swing ± 5V. max.	32	g <sub>m</sub> (mA/V)	11	19	100%					
e	6.3	250	- 4.0	-	Reverse I <sub>g</sub> (μA)	-	2.0	100%					
f	6.3	Strapped. 10V. D.C. applied		-	I <sub>c</sub> (mA)	90	-	100%					