

Specification MAP/CV 78/Issue 4
 Dated 15.1.49
 To be read in conjunction with K1001.

SECURITYSpecification~~RESTRICTED~~Valve

UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE:</u> Grounded anode triode			<u>MARKING</u> See K1001/4		
<u>CATHODE:</u> Indirectly heated.					
<u>ENVELOPE:</u> Glass - Lower portion enclosed in metal can.			<u>PACKING</u> See K1005		
<u>RATING</u>		Note	<u>BASE</u> B9G		
Heater Voltage (V)	6.3	A	Pin	Electrode	
Heater Current (A)	0.6		1	Heater	
Max. Anode Voltage (V)	250		2	Anode	
Max. Anode Dissipation with grid leak less than 1000Ω (W)	8.0		3	Anode	
Max. Anode Dissipation with grid leak greater than 1000Ω (W)	4.0		4	Control grid	
Mutual Conductance (mA/V)	15		5	Control grid	
Amplification factor	50		6	Anode	
Anode Impedance (Ω)	3100		7	Anode	
Efficiencies as Oscillator obtained at various wavelengths in a representative circuit.			8	Cathode	
Efficiency at 50 cms.	4%		9	Heater	
60	12%		<u>DIMENSIONS</u> See K1001/AL/D2		
70	18%		Dimension	Min.	Max.
80	23%		E (mm)	53.5	62
90	27%				
100	30%				
<u>CAPACITANCES (pF)</u>					
C _{ag}	7.4	B			
C _a (c+h)	6.0	B			
C _g (c+h)	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)	6.3	8.5	6 per week
	See K1001/AIII							
	Links to H.P.	Links to L.P.	Links to E	1. Cag				
	2,3,6,7 10	4,5	1,8,9 TC1, TC2.					
	2,3,6,7 10	1,8,9	4,5 TC1, TC2.	2. Ca (c+h)				
	4,5	1,8,9	2,3,6,7 TC1, TC2.	3. Cg (c+h)				
b	Vh	Va	Vg	(Ia(mA))	Ih (A)	0.54	0.66	100% or 3
	6.3	0	0	0				
c	6.3	250	-	32	Vg (V)	1.4	3.2	100%
d	6.3	250	grid swing ± 5V. max.	32	gm (mA/V)	11	19	100%
e	6.3	250	- 4.0	-	Reverse Ig (μA)	-	2.0	100%
f	6.3	Strapped. 10V. D.C. applied		-	Ic (mA)	90	-	100%