

Specification MAP/CV1136/Issue 5 Dated 10.4.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

—————> Indicates a change

<u>TYPE OF VALVE</u> - H.F. Pentode <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass-enclosed in metal shell <u>PROTOTYPE</u> - RL 7		<u>MARKING</u> See K1001/4																					
<u>RATING</u>		Note	<u>BASE</u> B9G																				
Heater Voltage (V) 6.3 Heater Current (A) 0.3 Max. Anode Voltage (V) 300 Max. Screen Voltage (V) 300 Max. Anode Dissipation (W) 3.0 Max. Screen Dissipation (W) 1.7 Mutual Conductance (mA/V) 7.7 Anode Impedance (MΩ) 0.5 Inner Amplification Factor 80 Max. Operating Frequency (Mc/s) 300			<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>Heater</td></tr> <tr><td>2</td><td>Anode</td></tr> <tr><td>3</td><td>Screen grid</td></tr> <tr><td>4</td><td>Internal screen</td></tr> <tr><td>5</td><td>Internal screen</td></tr> <tr><td>6</td><td>Control grid</td></tr> <tr><td>7</td><td>Internal screen</td></tr> <tr><td>8</td><td>Internal screen</td></tr> <tr><td>9</td><td>Heater</td></tr> </tbody> </table> Cathode and suppressor grid connected internally to screen.	Pin	Electrode	1	Heater	2	Anode	3	Screen grid	4	Internal screen	5	Internal screen	6	Control grid	7	Internal screen	8	Internal screen	9	Heater
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1	Heater																						
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9	Heater																						
<u>CAPACITANCES (pF)</u> Cae 5.3 Cge 8.8 Cag (max.) 0.02 Cg1g2 2.1			<u>DIMENSIONS</u> See K1001/AI/D2 Groove referred to in Note 1 of drawing is required.																				

NOTE

A. At $V_a = V_{g2} = 250$, $I_a = 10$ mA.

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested											
							Min.	Max.												
a	See K1001/AIII Measurements to be made in Adaptor Type 39, Ref. No. 10A/13335					<u>CAPACITANCES (pF)</u>														
										Links to HP	Links to LP	Links to E.	C _{ae}	4.5	6.0	6				
										2	1,3,4,5,7, 8,9,10	6, TC1, TC2					C _{ge}	7.5	10.0	per week
										6	1,3,4,5,7, 8,9,10	2, TC1, TC2								
2	6	1,3,4,5, 7,8,9,10 TC1,TC2																		
	V _h	V _a	V _{g2}	V _{g1}	I _a (mA)															
b	6.3	0	0	0	0	I _h (A)	0.27	0.33	100% or S											
c	6.3	250	250	-	10	V _g (V)	-1.1	-2.1	100%											
d	6.3	250	250	-	10	Reverse I _g (μA)	-	0.5	100%											
e	6.3	250	250	-	10	g _m (mA/V)	6.1	9.3	100%											
		Peak grid swing ±0.5V. max.																		
f	6.3	250	250	-	10	I _{g2} (mA)	1.15	1.75	100% or S											
g	6.3	250	250	-	10	Input Impedance at 40 Mc/s (Ω)	9,000	-	(See Note 1)											

NOTE

- Input impedance measurements are to be made on 50% of the valves selected for capacitance measurements.