

Specification MAP/CV1578/Issue 9 Dated 6.2.47. To be read in conjunction with K1001.	<div style="text-align: center;"><u>SECURITY</u></div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <u>Specification</u> RESTRICTED </div> <div style="text-align: center;"> <u>Valve</u> RESTRICTED </div> </div>
--	--

→ 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> - EF 50		<div style="text-align: center;"><u>MARKING</u></div> See K1001/4.	
<div style="text-align: center;"><u>RATING</u></div> 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) 6.5 Max. Working Voltage between Heater and Cathode 140 Max. Operating Frequency (Mc/s) 125 <u>CAPACITANCES (pF)</u> C _{ae} 5.6 C _{ge} 8.3 C _{ag} 0.007	<div style="text-align: center;"><u>Note</u></div> <div style="text-align: center;">A</div>	<div style="text-align: center;"><u>BASE</u></div> B9G	
		<div style="text-align: center;"><u>Pin</u></div> 1 2 3 4 5 6 7 8 9	<div style="text-align: center;"><u>Electrode</u></div> Heater Screen grid Anode Suppressor grid Internal screen Cathode Control grid Internal screen Heater
		<div style="text-align: center;"><u>DIMENSIONS</u></div> See K1001/AI/D2 Groove referred to in Note 1 of drawing is required	

NOTE

A. $V_a = V_{g2} = 250V.$, $I_a = 10 \text{ mA}$, $V_{g1} = -2.$

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>			6 per week
	Links to H.P.	Links to L.P.	Links to E.							
	3	1,2,4,5, 6,8,9,10	7, TC1, TC2	C _{ae}	4.8	6.5				
	7	1,2,4,5, 6,8,9,10	3, TC1, TC2.	C _{ge}	7.1	9.5				
	3	7	1,2,4,5, 6,8,9,10 TC1, TC2	C _{ag}	-	0.007		T.A.		
b	Vh	Va	Vg2	Vg3	Vg1	Ia (mA)	Ih (A)	0.27	0.33	100% or S
c	6.3	250	250	0	-	10	Reverse I _g (μA)	-	0.5	100%
d	6.3	250	250	0	-	10	g _m (mA/V)	5.2	7.8	100%
	Peak grid swing ±1.0V. max.									
e	6.3	250	250	-60	-2	-	Ia (mA)	-	2.0	100% or S
f	6.3	250	250	0	-	10	Input Impedance at 40 Mc/s. (Ω)	5000	-	0.5% (10)
g	6.3	250	250	0	0	-	Ia (mA)	8.0	12.0	100%
	Voltages measured with respect to HT -ve and with cathode connected to HT -ve through 150Ω									
h	6.3	As in test 'g'					I _{g2} (mA)	2.2	4.0	100% or S