

Specification MAP/CV1578/Issue 9 Dated 6.2.47. 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> - EF 50		<u>MARKING</u> See K1001/4.		
<u>RATING</u>		Note	<u>BASE</u> B9G	
Heater Voltage (V)	6.3	A	Pin	Electrode
Heater Current (A)	0.3		1	Heater
Max. Anode Voltage (V)	300		2	Screen grid
Max. Screen Voltage (V)	300		3	Anode
Max. Anode Dissipation (W)	3.0		4	Suppressor grid
Max. Screen Dissipation (W)	1.7		5	Internal screen
Mutual Conductance (mA/V)	6.5		6	Cathode
Max. Working Voltage between Heater and Cathode	140		7	Control grid
Max. Operating Frequency (Mc/s)	125		8	Internal screen
			9	Heater
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>	
C _{ae}	5.6		See K1001/AI/D2	
C _{ge}	8.3		Groove referred to in Note 1 of drawing is required	
C _{ag}	0.007			

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.			C _{ae}		4.8	6.5	
	3	1,2,4,5, 6,8,9,10	7, TC1, TC2			C _{ge}		7.1	9.5	
	7	1,2,4,5, 6,8,9,10	3, TC1, TC2.			C _{ag}		-	0.007	
	3	7	1,2,4,5, 6,8,9,10 TC1, TC2						T.A.	
b	V _h	V _a	V _{g2}	V _{g3}	V _{g1}	I _a (mA)	I _h (A)	0.27	0.33	100% or S
	6.3	0	0	0	0	0				
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	-	I _a (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	-	I _a (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