

Specification MAP/CV1091/Issue 9 Dated 16.1.47. 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>MARKING</u> See K1001/4	
<u>CATHODE</u> - Indirectly heated				
<u>ENVELOPE</u> - Glass - enclosed in metal shell				
<u>PROTOTYPE</u> - EF50				
<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 (V)	14.0		7	Control grid
Max. Operating Frequency (Mc/s)	125		8	Internal screen
			9	Heater
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See K1001/AI/D2. Groove referred to in Note 1 of drawing is required.	
C _{ae}	5.6			
C _{ge}	8.3			
C _{ag}	0.007			

NOTE

A. $V_a = V_{g2} = 250$, $I_a = 10$ 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</u> (pF)	4.8	6.5	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}						
	7	1,2,4,5, 6,8,9,10	3,TC1,TC2	C _{ge}						
	3	7	1,2,4,5,6, 7,8,9,10, TC1, TC2.	C _{ag}	-	0.007	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	V _{g1} (V)	-1.6	-2.4	100%
d	6.3	250	250	0	-	10	Reverse I _{g1} (μA)	-	0.5	100%
e	6.3	250	250	0	-	10	g _m (mA/V)	5.2	7.8	100%
	Peak grid swing ±1.0V.max.									
f	6.3	250	250	0	-	10	I _{g2} (mA)	2.5	3.7	100% or S
g	6.3	250	250	-60	-2	-	I _a (mA)	-	2.0	100% or S
h	6.3	250	250	0	-	10	Input Impedance at 40 Mc/s (Ω)	5000	-	0.5% (10)