

Specification MAP/CV1053/Issue 8 Dated 2.10.47. To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - H.F. Pentode, variable- mu <u>CATHODE</u> - Indirectly heated. <u>ENVELOPE</u> - Glass - metallised. <u>PROTOTYPE</u> - EF39.			<u>MARKING</u> See K1001/4.		
<u>RATING</u>		Note	<u>BASE</u>		
			I.O.		
Heater Voltage (V)	6.3		Pin	Electrode	
Heater Current (A)	0.2		1	Metallising	
Max. Anode Voltage (V)	300		2	Heater	
Max. Screen Voltage (V)	300		3	Anode	
Max. Anode Dissipation (W)	2.0		4	Screen grid	
Max. Screen Dissipation (W)	0.3		5	Suppressor grid	
Mutual Conductance (1) (mA/V)	2.2		6	Pin omitted	
(2) 0.0045			7	Heater	
Anode Impedance (1) (MΩ)	1.25		8	Cathode	
(2) > 10			TC	Control grid	
Max. Operating Frequency (Mc/s)	20		<u>TOP CAP</u>		
			See K1001/AI/D5.2		
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
Gas	7.9		See K1001/AI/D1.		
C _{gs}	5.6		Dimension.	Min.	Max.
C _{ag} (max.)	0.003		A (mm)	95	100
<u>NOTES</u>			B (mm)	-	32
			C (mm)	-	30
			A. At V _a = 250 V, V _{g2} = 100 V, V _{g1} = -2.5 V, I _a = 6 mA. B. At V _a = V _{g2} = 250 V, V _{g1} = -49 V.		

To be performed in addition to those applicable in K1001

	Test Conditions					Test	Limits		No. Tested	
							Min.	Max.		
a	See K1001/ALII					Capacitances (pF)			6 per week	
	Links to H.P.	Links to L.P.	Links to E.							
	3	1,2,4,5,7,8.	TC1,6,9,10,TC2.	Cas	7.0					9.4
	TC1	1,2,4,5,7,8.	3,6,9,10 TC2.	Cgs	4.8					6.4
	3	TC1	1,2,4,5,6,7,8,9,10,TC2.	Cag	-	0.003	T.A.			
	Vh	Va	Vg2	Vg3	Ia (mA)					
b	6.3	0	0	0	0	Ih (A)	0.18	0.22	100% or S	
c	6.3	250	100	0	6	Vg1 (V)	-1.9	-3.1	100%	
d	6.3	250	100	0	6	Ig2 (mA)	1.4	2.0	100% or S	
e	6.3	250	100	0	6	gm (mA/V)	1.8	2.6	100%	
	Peak grid swing \pm 0.5 V. max.									
f	6.3	250	100	0	6	Reverse Ig (μ A)	-	0.5	100%	
g	6.3	200	200	0	10 μ A	Vg1 (V)	-35	-52.5	100%	