

Specification MAP/CV1079/Issue 6 Dated 5.3.47. 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>	- Tetrode (pentode characteristic)	<u>MARKING</u>		
<u>CATHODE</u>	- Indirectly heated	See K1001/4		
<u>ENVELOPE</u>	- Glass-unmetallised			
<u>PROTOTYPE</u>	- KT8			
<u>RATING</u>		Note	<u>BASE</u>	
			B5 (ceramic)	
Heater Voltage (V)	6.3	A	Pin	Electrode
Heater Current (A)	1.25		1	Screen grid
Max. Anode Voltage (V)	600		2	Control grid
Max. Screen Voltage (V)	300		3	Heater
Max. Anode Dissipation (W)	25		4	Heater
Max. Screen Dissipation (W)	3.5		5	Cathode (and suppressor grid if used)
Mutual Conductance (mA/V)	6.5		T.C.	Anode
Max. Operating Frequency (Mc/s)	65			
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u>	
C _{ae}	5.5		See K1001/AI/D5.1	
C _{ge}	15.3			
C _{ag}	0.5			
<u>NOTE</u>		<u>DIMENSIONS</u>		
A. V _a = 250V., V _{g2} = 250V., I _a = 100mA.		See K1001/AI/D1		
		Dimension	Min.	Max.
		A {mm}	-	145
		B {mm}	-	57

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
a	See K1001/AIII			<u>CAPACITANCES (pF)</u>			6 per week
	Links to H.P.	Links to L.P.	Links to E				
	TC1	2	1,3,4,5, 6,7,8,9, 10, TC1, TC2		-	0.5	
	TC1	1,3,4, 5	2,6,7,8, 9,10, TC2		-	6.5	
	2	1,3,4, 5	6,7,8,9, 10, TC1, TC2	Cge	-	16.0	

Before the following tests are made, the valve shall be run for a period of 4 minutes with $V_a = V_{g2} = 250$, $I_a = 100\text{mA}$.

	V_h	V_a	V_{g2}	$I_a(\text{mA})$				
b	6.3	0	0	0	I_h (A)	-	1.4	100% or S
c	6.3	250	250	100	V_{g1} (V)	-7.5	-12.5	100%
d	6.3	250	250	100	Reverse I_{g1} (μA)	-	3.0	100%
e	6.3	250	250	100	I_{g2} (mA)	-	12.5	100% or S
f	6.3	250	250	100	g_m (mA/V)	5.0	8.0	100%
		Peak grid swing $\pm 1\text{V. max.}$						
g	6.3	250	250	2.5	V_{g1} (V)	-	-50	100%