

Specification MAP/CV1082/Issue 4 Dated 3.9.46. 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> : Triode Heptode <u>CATHODE</u> : Directly heated <u>ENVELOPE</u> : Glass-metallised <u>PROTOTYPE</u> : 220 TH	<u>MARKING</u> See K1001/4
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<u>RATING</u>	Note	<u>BASE</u> B7		
Filament Voltage (V)	2.0	Pin	Electrode	
Filament Current (A)	0.2	1	Oscillator anode	
Max. Anode Voltage (V)	150	2	Oscillator grid	
Max. Screen Voltage (V)	150	3	Screen grid	
Max. Triode Anode Voltage (V)	100	4	Filament	
Triode Mutual Conductance (mA/V)	1.8	5	Filament	
Amplification Factor	16.0	6	Metallising	
Anode Impedance (Ω)	8,500	7	Anode	
<u>Capacitances (pF)</u>		T.C.	Signal grid	
Signal grid to all other electrodes except anode	8.0	<u>TOP CAP</u> See K1001/AL/5.1		
Anode to all other electrodes except signal grid	16.0	<u>DIMENSIONS</u> See K1001/AL/D1		
Oscillator grid to all other electrodes except oscillator anode.	15.0	Dimension	Min.	Max.
Oscillator anode to all other electrodes except oscillator grid.	8.0	A (mm)	-	138
		B (mm)	-	51

NOTE

A. $V_a = 100, V_{g1} = 0.$

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested	
	Vf	Va	Vg2	Va0	Vg1	Vg0		Min.	Max.		
a	2.0	0	0	0	0	0	If (A)	0.18	0.22	100% or S	
b	2.0	120	120	100	0	0	Ia (mA)	2.6	5.4	100%	
c	2.0	120	120	100	-0.5	0	gm (mA/V)	0.65	-	100%	
	Peak grid swing $\pm 0.5V$. max.										
d	2.0	120	120	100	0	-0.5	Triode gm (mA/V)	1.4	-	100%	
	Peak grid swing $\pm 0.5V$. max.										
e	2.0	120	120	100	0	0	Iao (mA)	5.2	10.4	100%	
f	2.0	120	120	100	0	-15	Ia (mA)	-	1.0	100%	
g	2.0	120	120	100	0	-15	Reverse Igo (μA)	-	2.0	100%	
h	2.0	120	120	100	-8	0	Ia (mA)	0.01	0.5	100%	
j	2.0	120	120	100	-8	0	Reverse Ig1 (μA)	-	2.0	100%	