

Specification MAP/CV1100/Issue 6 Dated 7.1.46. To be read in conjunction with K.1001	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

<u>TYPE OF VALVE:-</u> Variable- μ H.F.pentode <u>CATHODE:-</u> Indirectly Heated. <u>ENVELOPE:-</u> Glass - unmetallised. <u>PROTOTYPE:-</u> KTW62	<u>MARKING</u> See K.1001/4
--	------------------------------------

<u>RATING</u>	Note	<u>BASE</u> I.O.																				
Heater Voltage (V) 6.3 Heater Current (A) 0.3 Max. Anode Voltage (V) 250 Max. Screen Voltage (V) 100 Anode Current (mA) 8.0 Mutual Conductance (mA/V) 2.85	A B B	<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>No connection</td></tr> <tr><td>2</td><td>Heater</td></tr> <tr><td>3</td><td>Anode</td></tr> <tr><td>4</td><td>Screen Grid</td></tr> <tr><td>5</td><td>Internal shield</td></tr> <tr><td>6</td><td>Pin omitted</td></tr> <tr><td>7</td><td>Heater</td></tr> <tr><td>8</td><td>Cathode</td></tr> <tr><td>T.C.</td><td>Control grid</td></tr> </tbody> </table>	Pin	Electrode	1	No connection	2	Heater	3	Anode	4	Screen Grid	5	Internal shield	6	Pin omitted	7	Heater	8	Cathode	T.C.	Control grid
Pin	Electrode																					
1	No connection																					
2	Heater																					
3	Anode																					
4	Screen Grid																					
5	Internal shield																					
6	Pin omitted																					
7	Heater																					
8	Cathode																					
T.C.	Control grid																					
<u>CAPACITANCES (pF)</u> C _{gs} 7.0 C _{as} 7.0 C _{ag} (max.) 0.005																						

PLUG TOP CAP
 See K1001/AT/D5.2

<u>DIMENSIONS</u> See K1001/AT/D1			
Dimension		Min.	Max.
A	(mm)	110	120
B	(mm)	-	39.6
C	(mm)	-	30
D	(mm)	-	30

NOTES

A:- Valve shall be capable of satisfactory operation over a heater voltage range of 5.7V. to 7.5V.

B:- At $V_a = 250$, $V_{g2} = 80$, $V_{g1} = -3$

To be performed in addition to those applicable in K1001

Test Conditions					Test	Limits		No. Tested		
						Min.	Max.			
See K1001/AlII					<u>CAPACITANCES</u> (PF)			6 per week		
Links to H.P.	Links to L.P.	Links to E.		1. Cgs					6.0	8.4
T.C.1.	1,2,4,5, 7,8.	3,6,9,10 TC2		2. Cae					5.8	8.5
3	1,2,4,5, 7,8	TC1,6,9, 10,TC2		3. Cag					-	0.005
Vh	Va	Vg2	Vg1	Ih (A)	0.27	0.33	100% or S			
b 6.3	0	0	0	Ia (mA)	5.4	10.7	100%			
c 6.3	250	80	-3	Ig2 (mA)	1.55	3.55	100% or S			
d 6.3	250	80	-3	gm (mA/V)	1.95	3.85	100%			
e 6.3	250	80	-3							
	Peak grid swing $\pm 0.5V$. max.									
f 6.3	250	80	-20	Ia (μA)	5.0	800	100%			
g 6.3	250	80	-3	Reverse Ig1 (μA)	-	1.0	100%			