

Specification MAP/CV276/Issue 3 Dated 19.1.49 To be read in conjunction with K1001 ignoring clauses: 5.2, 5.3.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Dwarf Tetrode (Aligned grids)		<u>MARKING</u> See K.1001/4																					
<u>CATHODE</u> - Indirectly heated		<u>PACKING</u> See K.1005																					
<u>ENVELOPE</u> - Glass-unmetallised																							
<u>RATING</u>		<u>BASE</u> I.O.																					
Heater Voltage	(V) 6.3	Note	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Pin</th> <th style="width: 50%;">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>No connection</td></tr> <tr><td>4</td><td>Screen grid</td></tr> <tr><td>5</td><td>Control grid</td></tr> <tr><td>6</td><td>No connection</td></tr> <tr><td>7</td><td>Heater</td></tr> <tr><td>8</td><td>Cathode</td></tr> <tr> <td>Side Contact</td> <td>Anode</td> </tr> </tbody> </table>	Pin	Electrode	1	No connection	2	Heater	3	No connection	4	Screen grid	5	Control grid	6	No connection	7	Heater	8	Cathode	Side Contact	Anode
Pin	Electrode																						
1	No connection																						
2	Heater																						
3	No connection																						
4	Screen grid																						
5	Control grid																						
6	No connection																						
7	Heater																						
8	Cathode																						
Side Contact	Anode																						
Heater Current	(A) 0.9																						
<u>Series Modulator</u>																							
Max. Anode Voltage	(kV) 3.0																						
Max. Anode Dissipation	(W) 5.0																						
Max. Screen Dissipation	(W) 1.0																						
<u>Break Modulator</u>																							
Max. Peak Anode Voltage	(kV) 10.0																						
Max. Anode Dissipation	(W) 5.0																						
Max. Screen Voltage	(V) 550																						
Max. Screen Dissipation	(W) 1.0																						
Max. Negative Grid Bias	(V) 500																						
Max. Grid to Screen Voltage	(kV) 1.0																						
Max. Peak Cathode Current	(A) 1.6	A																					
Mutual Conductance	(mA/V) 4.4	B																					
		<u>PLUG SIDE CAP</u> See K.1001/AI/D5.2																					
		<u>DIMENSIONS</u> See drawing on page 3.																					

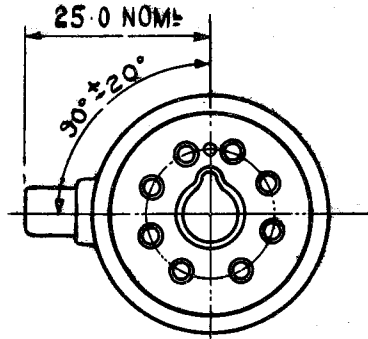
NOTES

- A: With pulse length not exceeding 20  $\mu$ secs.
- B: With  $V_a = V_{g2} = 200V.$ ,  $I_a = 25mA.$
- C: The valve may be mounted horizontally only if the side contact is also horizontal, i.e. the major axis of the grids must be vertical.

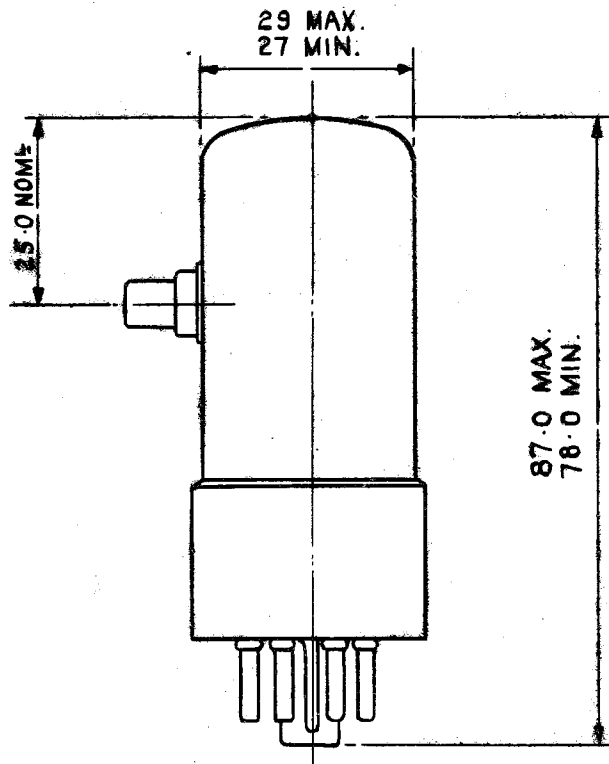
TESTS

To be performed in addition to those applicable in K.1001.

Test Conditions						Test	Limits		No. Tested
Vh	Va	Vg2	Vg1	Ia(mA)	Min.		Max.		
a	6.3	0	0	0	0	Ih (A)	0.8	1.0	100% or S
b	6.3	200	200	-	25	Ig2 (mA)	-	4.0	100% or S
c	6.3	200	200	-	25	Reverse Igl ( $\mu$ A)	-	1.0	100%
d	6.3	200	200	-60	-	Reverse Igl ( $\mu$ A)	-	7.0	100%
e	6.3	Cathode 150V. positive to heater.				Ic ( $\mu$ A)	-	40	100%
f	6.3	500	500	40 max.	-	Ia (A)	1.6	-	100%
Vg1 shall be applied as an intermittent pulse of 10 to 12 $\mu$ secs. duration with a 400:1 off:on ratio. Ia measurement is to be made when Vg1 is not more than 40V. positive.									
g	6.3	5.0 kV.	500	-	0.5	Vg1 (V) The valve shall be processed until it can withstand the stated conditions for a period of one minute without flashing. Once the conditions have been met they need not be repeated for acceptance testing.	-	-130	100%



VIEW OF UNDERSIDE  
OF BASE



ALL DIMENSIONS IN MILLIMETRES.