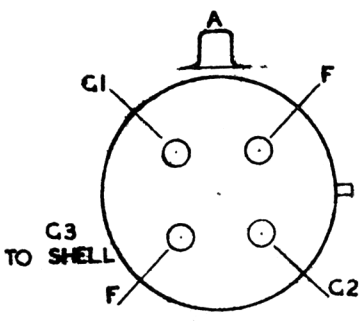


ADMIRALTY SIGNAL ESTABLISHMENT

(NT 38A)

Specification AD/CV1221/Issue 3. Dated 6.10.45. To be read in conjunction with K1001.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u> Restricted</td><td><u>Valve</u> Restricted</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u> Restricted	<u>Valve</u> Restricted
<u>SECURITY</u>					
<u>Specification</u> Restricted	<u>Valve</u> Restricted				

<u>TYPE OF VALVE</u> :- Transmitting Pentode <u>CATHODE</u> :- Directly heated, oxide coated. <u>ENVELOPE</u> :- Glass. <u>PROTOTYPES</u> :- PZ1-75, SW75 Pen, and PT6.	<u>MARKING</u> See K1001/4. <u>BASE</u> T4. See K1001/AIV/D7.
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<u>RATING</u>	Note	<u>CONNECTIONS</u> 												
Filament Voltage (V) 10.0 Filament Current (A) 2.0 Max. Anode Voltage (V) 1500 Max. Screen Voltage (V) 500 Max. Anode Current (mA) 150 Total Cathode Current (mA) 200 Mutual Conductance (mA/V) 1.7 Continuous Anode Dissipation (W) 75 Screen Dissipation (W) 20	A A B													
<u>CAPACITANCES (pF. approx.)</u> Caf 20 Cgf 26 Cag 0.05		<u>TOP CAP</u> See Fig. 1, page 2. <u>DIMENSIONS</u> See K1001/AI/D1. <table border="1" data-bbox="695 1273 1120 1412"> <tr> <th>Dimensions</th><th>Min.</th><th>Max.</th></tr> <tr> <td>L mm</td><td>225</td><td>245</td></tr> <tr> <td>B mm</td><td>64</td><td>66</td></tr> <tr> <td>Pin dia.</td><td>-</td><td>4.0</td></tr> </table> <u>PACKING</u> See K1001/7.3.	Dimensions	Min.	Max.	L mm	225	245	B mm	64	66	Pin dia.	-	4.0
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L mm	225	245												
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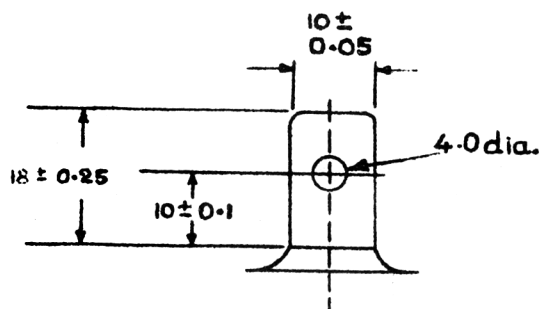
NOTES

- A. These values apply for use of the valve as an unmodulated Class "C" amplifier at not less than 15 metres wavelength.
- B. Measured at $V_a = 1500$ V, $V_{g2} = 400$ V, $I_a = 60$ mA.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		% Tested
	Vf(V)	Vg1(V)	Vg2(V)	Va(V)	Ia(mA)		Min.	Max.	
a	10.0	-	-	-	-	If (A)	1.8	2.2	100% or S
b	10.0	Adjusted	400	1500	60	Reverse Ig after 3 mins. (μ A)	-	10.0	100%
c	10.0	Adjusted	400	1500	50	Vg (V)	-115	-145	100%
d	10.0	Decreased by 10 V from value in test (c)	400	1500		Rise in Ia from value in test (c) (mA)	15.0	-	100%
e	The valve will be operated in a standard circuit at any frequency up to 20,000 kc/s.					High- frequency test	Valve must operate satis- factorily		100%



All dimensions are in mm.