

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1221/Issue 3. Dated 6.10.45. To be read in conjunction with K1001.	<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.	

<u>RATING</u>			Note	<u>CONNECTIONS</u>												
Filament Voltage (V)	10.0															
Filament Current (A)	2.0															
Max. Anode Voltage (V)	1500		A													
Max. Screen Voltage (V)	500															
Max. Anode Current (mA)	150		A													
Total Cathode Current (mA)	200		A													
Mutual Conductance (mA/V)	1.7		B													
Continuous Anode Dissipation (W)	75															
Screen Dissipation (W)	20															
<u>CAPACITANCES (pF. approx.)</u>				<u>TOP CAP</u>												
Caf	20			See Fig. 1, page 2.												
Cgf	26			<u>DIMENSIONS</u>												
Cag	0.05			See K1001/AI/D1.												
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Dimensions</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>L mms</td> <td>225</td> <td>245</td> </tr> <tr> <td>B mms</td> <td>64</td> <td>66</td> </tr> <tr> <td>Pin dia.</td> <td>-</td> <td>4.0</td> </tr> </tbody> </table>	Dimensions	Min.	Max.	L mms	225	245	B mms	64	66	Pin dia.	-	4.0
Dimensions	Min.	Max.														
L mms	225	245														
B mms	64	66														
Pin dia.	-	4.0														
				<u>PACKING</u>												
				See K1001/7.3.												

NOTES

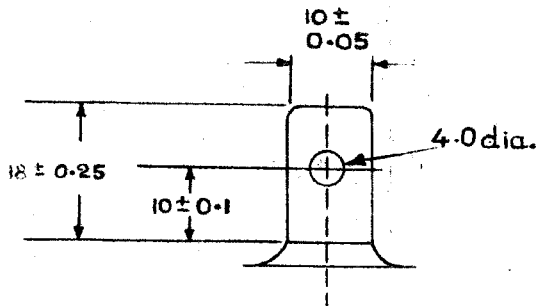
A. These values apply for use of the valve as an unmodulated Class "C" amplifier at not less than 15 metres wavelength.

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 satisfactorily		100%



All dimensions are in mms.