

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV84/Issue 2. Dated 13.11.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Triode		<u>MARKING</u>													
<u>CATHODE:-</u> Indirectly heated		See K1001/4.													
<u>ENVELOPE:-</u> Glass		<u>BASE</u>													
<u>PROTOTYPE:-</u> 3B/102B		B5													
<u>RATING</u>		See K1001/AIV/D5.2.													
		<u>Note</u>													
Heater Voltage (V)	6.0		<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Anode</td> </tr> <tr> <td>2</td> <td>Grid</td> </tr> <tr> <td>3</td> <td>Heater</td> </tr> <tr> <td>4</td> <td>Heater</td> </tr> <tr> <td>5</td> <td>Cathode</td> </tr> </tbody> </table>	Pin	Electrode	1	Anode	2	Grid	3	Heater	4	Heater	5	Cathode
Pin	Electrode														
1	Anode														
2	Grid														
3	Heater														
4	Heater														
5	Cathode														
Heater Current (A)	0.8														
Amplification Factor	15	A													
Anode Impedance (ohms)	2,500	A													
Mutual Conductance (mA/V)	6	A													
Max. Anode Voltage (V)	500														
Max. Anode Dissipation (W)	10														
Max. Anode Current (mA)	100														
<u>CAPACITANCES (pF. approx.)</u>		<u>DIMENSIONS</u>													
C _{ag}	4.5	See K1001/AI/D1.													
C _{ge}	7.3	<table border="1"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A mm</td> <td>-</td> <td>121</td> </tr> <tr> <td>B mm</td> <td>-</td> <td>45</td> </tr> </tbody> </table>		Dimension	Min.	Max.	A mm	-	121	B mm	-	45			
Dimension	Min.			Max.											
A mm	-	121													
B mm	-	45													
C _{ac}	4.5	<u>PACKING</u>													
		See K1001/7.													
<u>NOTE</u>															
A. $V_a = 300 \text{ V}$, $V_g = -9 \text{ V}$.															

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
	Vh (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.	
a	6.0	-	-	-	Ih (A)	0.75	0.85	100%
b	6.0	300	Ad-justed	66	Reverse Ig after 1 min. (uA)	-	5	100%
These conditions maintained for 1 minute; at the end of this time reverse Ig shall not be rising.								
c	6.0	300	-9	x	Ia (mA)	35	75	100%
d	6.0	300	-12	y	x-y (mA)	10	23	100%
e	6.0	260	Ad-just-ed	x as in test 'c'	-Vg change (V)	1.8	4.2	100%
f	6.0	400	-40		Ia cut-off (mA)	-	2	100%
g	6.0 R.M.S.	50 V A.C. 50 c/s	= Va		Emission (mA)	90	-	100%
Iag measured on moving coil milliammeter								

NOTE

1. Voltages Va and Vg are given with respect to the centre-part of the filament transformer.