

ADMIRALTY SIGNAL ESTABLISHMENT

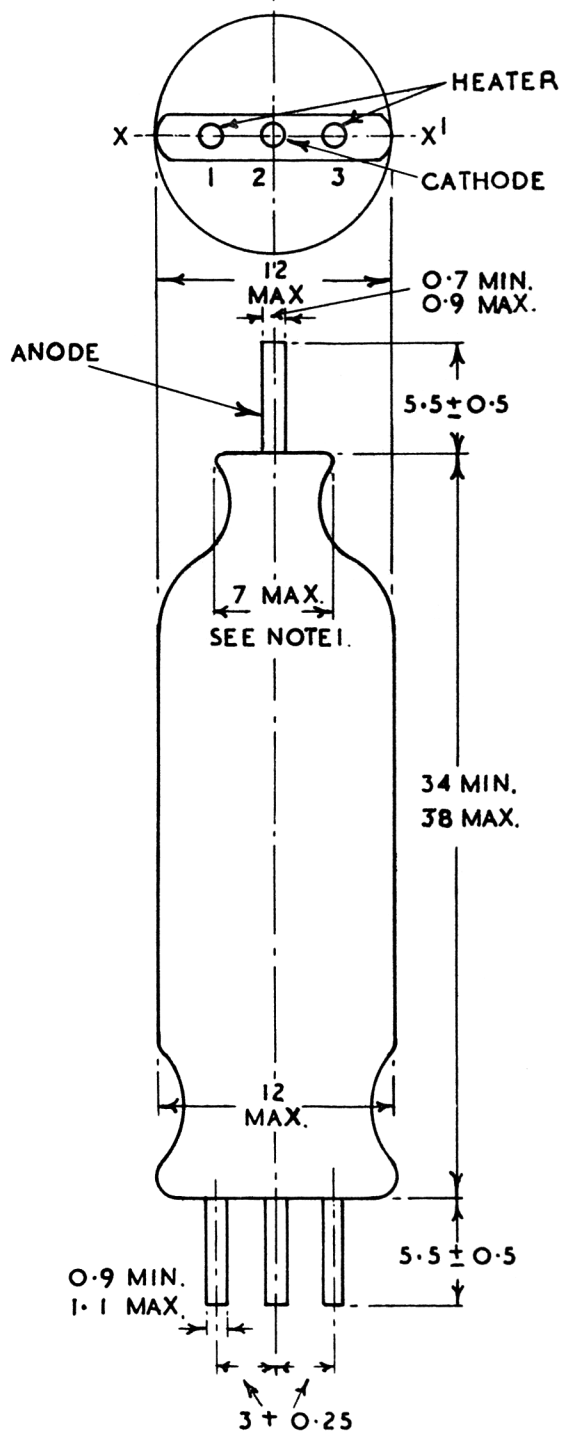
| Specification AD/CV375/Issue 2.<br>Dated 16.5.47.<br>To be read in conjunction with K1001,<br>ignoring clause:- 5.2. | <table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u><br/><del>Restricted</del><br/><i>Unclass</i></td><td><u>Valve</u><br/>Unclassified</td></tr> </table> | <u>SECURITY</u> |  | <u>Specification</u><br><del>Restricted</del><br><i>Unclass</i> | <u>Valve</u><br>Unclassified |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|-----------------------------------------------------------------|------------------------------|
| <u>SECURITY</u>                                                                                                      |                                                                                                                                                                                            |                 |  |                                                                 |                              |
| <u>Specification</u><br><del>Restricted</del><br><i>Unclass</i>                                                      | <u>Valve</u><br>Unclassified                                                                                                                                                               |                 |  |                                                                 |                              |

|                                          |      |      |                        |  |
|------------------------------------------|------|------|------------------------|--|
| <u>TYPE OF VALVE:-</u> Diode.            |      |      | <u>MARKING</u>         |  |
| <u>CATHODE:-</u> Indirectly heated.      |      |      | See K1001/4            |  |
| <u>ENVELOPE:-</u> Glass - unmetallised.  |      |      | <u>BASE</u>            |  |
| <u>PROTOTYPE:-</u> EA50.                 |      |      | B3G                    |  |
|                                          |      |      | See K1001/AIV/D10      |  |
| <u>RATING</u>                            |      |      | Note                   |  |
| Heater Voltage                           | (V)  | 6.3  |                        |  |
| Heater Current                           | (A)  | 0.15 |                        |  |
| Max. Peak Anode Current                  | (mA) | 50   |                        |  |
| Max. Mean Anode Current                  | (mA) | 5.0  |                        |  |
| Max. Peak Inverse Voltage                | (V)  | 350  |                        |  |
| Max. H-C Voltage (D.C.) with C +ive to H | (V)  | 300  |                        |  |
| Max. H-C Voltage (D.C.) with H +ive to C | (V)  | 75   |                        |  |
| <u>CAPACITANCES (pF)</u><br>(approx.)    |      |      |                        |  |
| Cac                                      |      | 1.6  | See Drawing on Page 3. |  |
| Cah                                      |      | 0.5  | <u>PACKING</u>         |  |
|                                          |      |      | See K1001/7            |  |

TESTS

To be performed in addition to those applicable in K1001.

|   | Test Conditions  |                  |                                 | Test                                                                        | Limits |       | No.<br>Tested    |
|---|------------------|------------------|---------------------------------|-----------------------------------------------------------------------------|--------|-------|------------------|
|   |                  |                  |                                 |                                                                             | Min.   | Max.  |                  |
| a | See K1001/5.3.   |                  |                                 | H-C Leakage Current ( $\mu A$ )                                             | -      | 17    | 100%             |
| b | See K1001/AIII   |                  |                                 | <u>Capacitances</u>                                                         |        |       | 6<br>per<br>week |
|   | Links to<br>H.P. | Links to<br>L.P. | Links to<br>E                   |                                                                             |        |       |                  |
|   | TC1              | 2                | 1,3,4,5,<br>6,7,8,9,<br>10, TC2 | i. $C_{ac}$ (pF)                                                            | -      | 2.0   |                  |
|   | TC1              | 1,3              | 2,4,5,6,<br>7,8,9,<br>10, TC2   | ii. $C_{ah}$ (pF)                                                           | -      | 1.0   |                  |
| c | $V_h$<br>(V)     | $V_a$<br>(V)     |                                 |                                                                             |        |       | 100%<br>or S     |
|   | 6.3              | 0                |                                 | $I_h$ (A)                                                                   | 0.135  | 0.175 |                  |
| d | 6.3              | -100             |                                 | A to C + H<br>Leakage<br>Current ( $\mu A$ )                                | -      | 0.5   | 100%             |
| e | 6.3              | -0.2             |                                 | $I_a$ ( $\mu A$ )                                                           | 5.0    | -     | 100%             |
| f | 6.3              | -1.0             |                                 | $I_a$ ( $\mu A$ )                                                           | -      | 5.0   | 100%             |
| g | 6.3              | 10               |                                 | $I_a$ (mA)                                                                  | 34     | -     | 100%             |
| h | 6.3              | 0                |                                 | Standing current<br>with 10 K $\Omega$<br>load in anode<br>lead ( $\mu A$ ) | -      | 20    | 100%             |

NOTES:-

1. THIS DIMENSION MUST BE HELD OVER DEPTH OF 2.5 MIN.
2. THE CENTRE POINTS OF THE PINS MAY NOT DEVIATE MORE THAN 0.5 FROM THE LINE X-X'.
3. PINS ARE TO BE PLATED OR DIPPED, SUBJECT TO APPROVAL. THE PINS ARE TO BE FREE FROM IRREGULARITIES AND BURRS.

ALL DIMENSIONS IN  
MILLIMETRES.