

MINISTRY OF SUPPLY (DLRD(A)/RAE)

VALVE ELECTRONIC

CV377

|  |                                      |                              |
|--|--------------------------------------|------------------------------|
| Specification in MAP/CV.377<br>Issue 2, dated 25.4.52<br>To be read in conjunction with K.1001 | <u>SECURITY</u>                      |                              |
|  | <u>Specification</u><br>UNCLASSIFIED | <u>Valve</u><br>UNCLASSIFIED |

—&gt; Indicates a change

|  |            |                                     |                |
|--|------------|-------------------------------------|----------------|
| TYPE OF VALVE - Beam Tetrode<br>CATHODE - Indirectly Heated<br>ENVELOPE - Glass - unmetallised<br>PROTOTYPE - VX6046 |            | <u>MARKING</u><br>See K1001/4       |                |
|  |            | <u>BASE</u><br>I.O                  |                |
| <u>RATING</u>  |            | <u>CONNECTIONS</u>                  |                |
|  | Note       | Pin                                 | Electrode      |
| Heater Voltage   | (V) 26     |                                     |                |
| Heater Current   | (A) .40    | 1                                   | No connection  |
| Max. Operating Anode Voltage   | (V) 800 A  | 2                                   | Heater         |
| Max. Operating Screen Voltage  | (V) 300 A  | 3                                   | No connection  |
| Max. Anode Dissipation   | (W) 35.0 A | 4                                   | Screen Grid    |
| Max. Screen Dissipation  | (W) 5.0 A  | 5                                   | Control Grid   |
|  |            | 6                                   | No connection  |
|  |            | 7                                   | Heater         |
|  |            | 8                                   | Cathode        |
|  |            | T.C.                                | Anode          |
|  |            | <u>TOP CAP</u><br>See K1001/A1/D5.2 |                |
|  |            | <u>DIMENSIONS</u>                   |                |
|  |            | Dimension                           | Min.      Max. |
|  |            | A mm                                | -      150     |
|  |            | B mm                                | -      56      |

NOTES

- A. Absolute maximum values.
- B. Mounting Position. Vertical with base down. If run horizontally the major axis of the grids must be vertical.

To be performed in addition to those applicable in K1001

| Test Conditions        |    |   |     |                        | Test                     | Limits |       | No. Tested             | Note |
|------------------------|----|---|-----|------------------------|--------------------------|--------|-------|------------------------|------|
| Vh                     | Va | Vg2   | Vg1 | Ia                     |                          | Min.   | Max.  |                        |      |
| a                      | 26 | 0   | 0   | 0                      | Ih (A)                   | .36    | .44   | 100%<br>or 3           |      |
| b                      | 26 | 150   | 150 | -                      | Vg1 (V)                  | -6.5   | -13.0 |                        |      |
| c                      | 26 | 150   | 150 | -                      | Reverse Igl ( $\mu$ A)   | -      | 2.0   |                        |      |
| d                      | 26 | 150   | 150 | -                      | Ig2 (mA)                 | -      | 19.5  | 100%<br>or 3           |      |
| e                      | 26 | 150   | 150 | -                      | Ia rise (mA)             | 60     | 95.0  | 100%<br>20 per<br>week |      |
| Vg made positive by 6V |    |   |     |                        |                          | 60     |       |                        |      |
| f                      | 26 | 150   | 150 | -60                    | Reverse Igl ( $\mu$ A)   | -      | 4.0   | 100%                   |      |
| g                      | 26 | 150   | 150 | -60                    | Ia (mA)                  | -      | 5.0   | 100%<br>or 3           |      |
| h                      | 26 | 50  | 150 | As in<br>clause<br>'b' | Ig2<br>(See Note 1) (mA) | -      | 40    | 100%<br>or 3           | 1    |
| J                      | 26 | See K1001/5.3. Except<br>that test voltage = 350V |     |                        | Ih-e ( $\mu$ A)          | -      | 40    | 100%                   |      |
| k                      | 26 | 100   | 100 | 0                      | Ia mA                    | 164    | 264   | 100%<br>or 3           |      |

NOTES

1. Test voltages applied only for sufficient time to obtain a steady reading.