MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

VALVE ELECTRONIC **CV469**

| Specification MOSA/CV.469<br>Issue 6 Dated 16.10.54<br>To be read in conjunction with B.S.1409 and K.1001 | SECURITY<br>Specification: UNCLASSIFIED<br>Valve: UNCLASSIFIED |
|---|---|

→ Indicates a change

TYPE OF VALVE - Single Diode

CATHODE - Indirectly Heated

ENVELOPE - Glass, unmetallised

PROTOTYPE - VX.8062

MARKING
See K.1001/4
CV number, T.A. letters, Factory and Date code, only required. ←

BASE
B5B

| RATING | | | Note |
|---|---|---|---|
| Heater Voltage | (V) | 6.3 | |
| Heater Current | (mA) | 150 | |
| Max. P.I.V. | (V) | 460 | |
| Max. Peak Anode Current | (mA) | 60 | |
| Max. Mean Anode Current | (mA) | 10 | |
| Max. hk Voltage | (V) | 330 | A |

CONNECTIONS

| Pin | Electrode |
|---|---|
| 1 | h ← |
| 2 | a |
| 3 | k ← |
| 4 | h |
| 5 | a |

CAPACITANCES (pF)

| | | |
|---|---|---|
| Ca,k + h + Sh (nom.) | 4.0 | B |
| Ck,a + h + Sh (nom.) | 4.0 | B |

DIMENSIONS
See Drawing on Page 3 ←

| Dimension | Min. | Max. |
|---|---|---|
| A m.m. | - | 28.5 |
| B m.m. | - | 5.4 |

NOTES

A. Breakdown value with cathode positive to heater.

B. Measured with a close fitting metal shield.

To be performed in addition to those applicable in K.1001

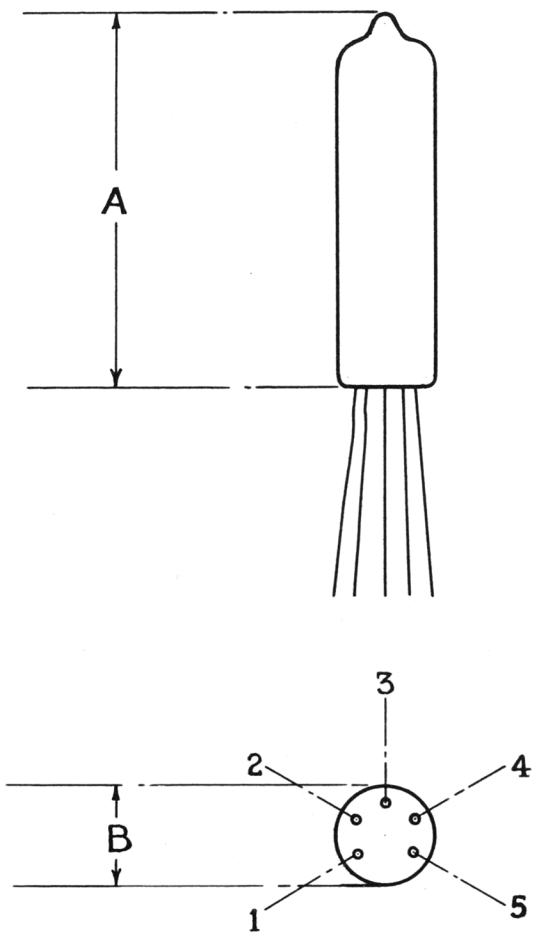
| | Test Conditions | | | Test | Limits Min. | Limits Max. | No. Tested | Note |
|---|---|---|---|---|---|---|---|---|
| | See K.1001/A111 | | | | | | | |
| | Links to H.P. | Links to L.P. | Links to E. | Capacitances (pF) | | | | |
| a | 2,5 | 1,3,4, Sh | - | Ca,k + h + Sh | 3.25 | 4.7 | 6 per week | 1 |
| | 3 | 1,2,4,5, Sh | - | Ck,a + h + Sh | 2.75 | 5.2 | | |
| | Vh | Va | | | | | | |
| b | 6.3 | - | | Ih (mA) | 135 | 165 | 100% | |
| c | 6.3 | 5 | | Ia (mA) | 20 | - | 100% | |
| d | 6.3 | Resistance between cathode and anode 40K ohms | | Ia (μA) | 5 | 25 | 100% | |
| e | 6.3 | -100 | | Anode-all Leakage (μA) | - | 5 | 100% | |
| f | 6.3 | Vhk | | | | | | |
| | | (1) 20VDC(Cathode positive) | | Ihk (μA) | - | 1.0 | 100% | 2 |
| | | (2) 90VDC(Cathode positive) | | Ihk (μA) | - | 4.5 | 100% | 2 |
| | | (3) 90VDC(Cathode negative) | | Ihk (μA) | - | 9.0 | 100% | 2 |

NOTES

1. Measured with a close fitting metal shield. Connections refer to valve pins. All shall be measured at a frequency of at least 1.0 Mc/s.

2. See K.1001/5.3 except that the voltages and limits shall be as shown.

# CV469




BULB STRAIGHTNESS. The finished valve must pass through a cylindrical gauge of length at least equal to that of the bulb. I.D. of cylinder = 0.218 inch.

LEADS. The leads shall be flexible 25 - 27 S.W.G. tinned wire at least 38 mm. in length.