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Valve Electronic C.V.1069

MINISTRY OF SUPPLY D.L.R.D./R.A.E.

| SPECIFICATION MOS/CV1069 | SECURITY | | |
|---|---------------|--------------|--|
| ISSUE NO. 7 DATED 14.9.59 | SPECIFICATION | VALVE | |
| To be read in conjunction with K1001 & BS1409 | Unclassified | Unclassified | |

- Indicates a change

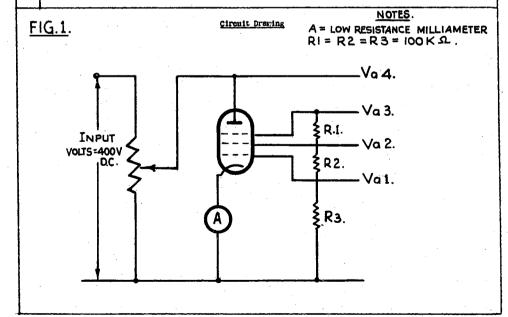
| TYPE OF VALVE:- Voltage Stabiliser | | | | MARKING See K1001/4 | | | |
|--|----------|-----|-------|----------------------------------|-----------|-------------|--|
| CATHODE:- Cold | | | | | | | |
| ENVELOPE:- Glass unmetallised PROTOTYPE:- STV 280/80 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| RATINGS | | | | BASE | | | |
| | | | NOTES | B5 See K10 | 001/AIV/ | Drg 5.2 | |
| Max. Striking Voltage | (v) | 363 | | CONNECTIONS | | | |
| Max. Cathode Current | (mA) | 80 | | PIN | ELECTRODE | | |
| Nominal Operating Voltage | <u>e</u> | | | 1 | Anode | 4 a4 | |
| at Ik = 40 mA Anode 1 - Cathode | (V) | 73 | | 2 | Catho | de k | |
| Anode 2 - Cathode | (v) | 143 | | 3 | | 2 a2 | |
| Anode 3 - Cathode | (v) | 205 | | 4 | | 3 a3 | |
| Anode 4 - Cathode | (v) | 282 | | 5 | Anode | 1 a1 | |
| · | | | | DIMENSIONS See K1001/A1/Drg 1 | | | |
| | | | | DIMENSIONS | | MAX | |
| | | | | "A" Overall length | - | 150 | |
| · | | | | "B" Diam. | - | 63 | |
| | | | | | | | |
| | | | | Packaging | | | |
| | | | | K1 001/14 | | | |
| | | | | | | | |

To be performed in addition to those applicable in K1001.

The valve, unless otherwise stated, shall be tested in the circuit shown in Fig. 1. Should the valve fail in any of the following tests, it shall be retested after a period of 15 minutes operation at Ik = 80 mA.

| | Test | | Insp. | Symbol. | Limits | | unit |
|------|---------------------|--|--------|---------------|--------|-----|------|
| Test | Test Conditions | | SAMOOT | Min | Max |] | |
| .* | Va 4 Strike Voltage | The applied voltage to be increased from zero until current flows. | 100 % | ٧s | • | 363 | ٧ |
| | Operating Voltages | Current through A = 40 mA. After 15 minutes operation the running voltages to be measured. | 100 ≴ | | | | |
| | | 1) Va 1 | | ∀a 1 · | 60 | 87 | V |
| | · | 2) Va 2 | | Va 2 | 120 | 167 | v |
| | | 3) Va 3 | | Va 3 | 185 | 226 | V |
| | | 4) Va 4 | | Va 4 | 250 | 314 | V |
| | Impedance | Record Va 3 with current through A adjusted for a) 80 mA, b) 20 mA and c) 10 mA. | 100 % | | | | |
| | | 1) Va 3 @ 80 ma - Va 3 @ 10 ma. | | Va 3 | - | 14 | ٧ |
| | | 2) Va 3 0 20 mA - Va 3 0 10 mA. | | Va 3 | - | 2 | V |
| | No ise | | 100 % | | | | |
| | , | | | 1 | 1 | 1 | 1 |

A calibrated amplifier detector having a substantially uniform response over the range 50 = 5000 c.p.s. shall be connected between 24 and the cathode. The current through A shall be varied from 10 mA to 80 mA. At no point in the range shall the noise input to the amplifier exceed 100 mV r.m.s.



CV1069/7/2