VALVE ELECTRONIC

MINISTRY OF SUPPLY - DLRD(A)/TRE

CV 2244

| Specification MOS(A)/CV2244 SECURITY | | | | | | | | | | |
|--|---------------|--------------|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| Issue 2 Dated 11.2.53 | Specification | Valve | | | | | | | | |
| To be read in conjunction with K1001 | UNCLASSIFIED | UNCLASSIFIED | | | | | | | | |
| Lancard Control of the Control of th | | <u></u> | | | | | | | | |

Indicates a change

| TYPE OF VALVE | - Cathode Ray Tube | | | | | MARKING | | |
|--------------------|-------------------------|--|----------|--------------|--|--|--|--|
| TYPE OF DEFLECTION | N - Magnetic | | | | See K1001 | /4 | | |
| TYPE OF FOCUS | - Electro-static | | | | | BASE | | |
| BULB | - Internally coated wit | th conduct | live coa | ating | 10 | | | |
| PROTOTYPE | - VCR X258 | | | | 0 | ONNECTIONS | | |
| | RATINGS | and the same of th | | No te | Pin | Electrode | | |
| Max. Third Anode | | | | A A A | 1 2 3 4 5 6 7 8 s.c. | No connection A1 A2 No connection G C H H A3 | | |
| | | | | | | DIMENSIONS ng on Page 4 | | |
| | | NICAL E.C. | , | | | | | |

NOTES

- A. Absolute maximum value.
- B. The first anode must always be at least 50V positive to the second anode and the supply network must take account of variations in first anode current from zero to working value.

| | Test Conditions | | | | | | } | ii ts | No. | No |
|---|--|--|---|--|--|---|------|-------------|--------------------|----|
| | Vh (V) | Va3 (kV) | Ve2 (kV) | Vai (kV) | Vg (V) | Test | Min. | Max. | Tested | |
| a | | S | ee K1001 | /5A.13 | | CAPACITANCES (pF) 1. Cg-c 2. Cc-h | - | 10 10 | 5 % (20) | |
| b | 4.0 | 0 | 0 | 0 | 0 | Ih (A) | 0.95 | 1.15 | 100% | |
| С | 4.0 | 7.0 | Adjust for op- timum focus | 1.25 | Adjust to cut off | Vg (V) Value to be noted | -40 | -80 | 100% | |
| đ | size | , adju | As for Test(c) aster of ast to gi | conven ve a l | | Light Intensity (uA) Beam Current | _ | 100 | 100% | |
| e | Ad j u | 7.0 | As for Test(c) to value | | | Vg (V) Change in Vg from value found in Test (c)(V) The beam current shall increase continuously over the range of Vg from cut-off to that value required for Test (d). | | 3 5 | 100% | |
| ſ | time line Y di GRID posi to t (e.2 puls bein | base lengt rection The tively the value of the tively the durent the tively tively the tively tively the tively | As for Test(c) I - With of 10 ke th of 80 cms, succe grid show with amount attion and Ausecs arely. | a sine //s nom mms in essive all be aplitud ned in value recur | . and X and ly. pulsed e equal Test s of | 1. Line width (mm) 2. Va2 (V) | 1 | 0.5 1050 | 100% | |

| Test Conditions | | | | | | Test | Limits | | No. | Note |
|-----------------|--|-------------|--------------------------------|--------------|------------------------------|--|--------|------|--------|-------|
| | Vh (V) | Va3 (kV) | Va2 (kV) | Va1 (kV) | Vg (V) | | Min. | Max. | Tested | No te |
| g | 4.0 | 7.0 | Any con- | 1.25 | - 80 | Grid Insulation 1. Leakage current (UA) 2. Increase in voltmeter | - | 8 | 100% | |
| | | | value K1001/5A. resistor | | Megohms | reading | - | 100% | | |
| h | 4.0 | 7.0 | Any con- venient value | 1.25 | _ | Deviation of spot from (mm) centre of screen | - | 5 | 100% | |
| j | 4.0 | 7•0 | Any con- veniant value | 1.25 | Any con- venient value | Useful Screen Area Diameter (mm) | 80 | - | 100% | |
| k | 4.0 | 7.0 | Any con- venient value | 1.2 5 | - | Afterglow (secs) | 3 | 16 | 100% | |
| | Test to be performed in an approved Test Set. | | | | | | | | | |
| m | The tube shall be capable of being used with an earth connection to any point on the HT potential divider without causing distortion of the trace or spot shift. | | | | | | | | | |

