VALVE ELECTRONIC **CV 2243**

MINISTRY OF SUPPLY (S.R.D.E.) (VX6108)

Specification: MOS/CV2243 Issue 4
Date: 19.10.54.
To be read in conjunction with K1001

| SECURITY | |
|---|---|
| Specification | Valve |
| Unclassified | Unclassified |

← Indicates a change

TYPE OF VALVE: Screened Pentode
CATHODE: Indirectly heated
ENVELOPE: Glass, unmetallised
PROTOTYPE: PSG 8
Characteristics similar to 6F14

MARKING

See K1001/4.

| RATING | | Note |
|---|---|---|
| Heater Voltage (V) | 6.3 | |
| Heater Current (mA) | 350 | |
| Max. Anode Voltage (V) | 300 | A |
| Max. Screen Voltage (V) | 300 | A |
| Max. Anode Dissipation (W) | 4.5 | A |
| Max. Screen Dissipation (W) | 1.2 | A |
| Mutual Conductance (mA/V) | 8.4 | B |
| Max. $V_{hk}$ (V) | 150 | A |
| Max. $I_k$ (mA) | 35 | A |
| Va Max. for Ia = 0 (V) | 550 | A |
| → Vg2 Max. for Ia = 0 (V) | 450 | A |
| Amplification Factor(g1-g2) | 33 | |
| Input Resistance at 50 Mc/s (ohms) | 2800 | C |

BASE
B9A

CONNECTIONS

| Pin | Electrode |
|---|---|
| 1 | s |
| 2 | g1 |
| 3 | k |
| 4 | h |
| 5 | h |
| 6 | s |
| 7 | a |
| 8 | g2 |
| 9 | g3 |

DIMENSIONS

See K1001/A1/D4

| CAPACITANCES (pF) | |
|---|---|
| ca, g1 (max) | 0.01 |
| c in | 8.7 |
| c out | 4.5 |

| Dimension | Min. | Max. |
|---|---|---|
| A mm. | | 57.0 |
| B mm. | | 22.2 |
| F mm. | 37.5 | 42.0 |
| L mm. | | 49.0 |

NOTES

A. All limiting ratings are absolute unless otherwise stated.
B. Measured at Va = 200 Vg2 = 115 Vg3 = 0 Vg1 = -2
C. At Va = Vg2 = 150 Ia = 24 mA



Z.7704.R.

# CV 2243



To be performed in addition to those applicable in K1001

| | Test Condition | | | | | | Test | Limits Min. | Limits Max. | No. Tested | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | See K1001/A III | | | | | | Capacitances (pF) | | | | |
| | Links to H.P. | | Links to L.P. | | Links to E. | | | | | | |
| a | 2 | | 7 | | 1,3,4,5, 6,8,9 | | (i) ca,g1 | | 0.01 | T.A. | |
| | 2 | | 1,3,4,5, 6,8,9 | | 7 | | (ii) c in | 7.1 | 10.3 | 6 per week | |
| | 7 | | 1,3,4,5, 6,8,9 | | 2 | | (iii) c out | 3.7 | 5.3 | | |
| | Vh | Va | Vg2 | Vg3 | Vg1 | Ia | | | | | |
| b | 6.3 | 0 | 0 | 0 | 0 | | Ih (mA) | 315 | 385 | 100% | |
| c | 6.3 | 200 | 115 | 0 | 0 | | Ia (mA) | 25.6 | 42.0 | 100% | |
| d | 6.3 | 200 | 115 | 0 | 0 | | Ig2 (mA) | 5.5 | 13.0 | 100% or S | |
| e | 6.3 | 200 | 115 | 0 | -2 | | Rev.Ig (μA) | - | 0.75 | 100% | |
| f | 6.3 | 200 | 115 | 0 | -2 | | gm (mA/V) | 6.3 | 10.5 | 100% | |
| g | 6.3 | 200 | 115 | 0 | Ad-just | 100 μA | Vg1 (V) | - | -9.5 | 100% | |
| h | 6.3 | 200 | 115 | 0 | Ad-just | 10 μA | Vg1 (V) | - | -12.0 | 20 per week | |
| j | 6.3 | 200 | 115 | 0 | -2 | | Vg2 (V) change | 25 | 41 | 20 per week | 1 |

NOTE

1. Reduce Vg1 by 1 volt and reduce Vg2 to keep Ia constant.