MINISTRY OF AIRCRAFT PRODUCTION (DCD) VALVE ELECTRONIC (VR59)

# CV1059

| Specification MAP/CV1059/Issue 6<br>Dated 6.4.46.<br>To be read in conjunction with K1001. | SECURITY<br>Specification: RESTRICTED<br>Valve: RESTRICTED |
|---|---|

→ Indicates a change

TYPE OF VALVE - Acorn Triode
CATHODE - Indirectly heated
ENVELOPE - Glass - unmetallised
PROTOTYPE - HA2, 955, 4671

MARKING
See K1001/4

| RATING | | Note |
|---|---|---|
| Heater Voltage (V) | 6.3 | |
| Heater Current (A) | 0.15 | |
| Max. Anode Voltage (V) | 250 | |
| Max. Anode Dissipation (W) | 1.6 | |
| Mutual Conductance (mA/V) | 2.0 | A |
| Amplification Factor | 25 | A |
| Anode Impedance (Ω) | 12,500 | A |
| **CAPACITANCES (pF)** | | |
| Ca-c+h | 0.6 | |
| Cg-c+h | 1.0 | |
| Cag | 1.45 | |

BASE
None
See Note B

| Pin | Electrode |
|---|---|
| 1 | Heater |
| 2 | Anode |
| 3 | Control grid |
| 4 | Heater |
| 5 | Cathode |

DIMENSIONS
See K1001/AI/D4.1.2.

NOTES

A:- Va = 180 V., Vg = -5.

B:- Pins are to be plated.

CV1059

TESTS



To be performed in addition to those applicable in K1001.

| | Test Conditions | | | Test | Limits Min. | Limits Max. | No. Tested | Note |
|---|---|---|---|---|---|---|---|---|
| a | See K1001/AIII | | | | | | | |
| | Links to H.P. | Links to L.P. | Links to E. | Capacitances (pF) | | | | |
| | 2 | 1,4,5 | 3,6,7,8, 9,10, TC1,TC2. | 1. Cae | - | 0.7 | 6 per week | 1 |
| | 3 | 1,4,5 | 2,6,7,8, 9,10, TC1,TC2 | 2. Cge | 0.8 | 1.2 | | |
| | 2 | 3 | 1,4,5,6, 7,8,9,10 TC1,TC2 | 3. Cag | 1.3 | 1.6 | | |
| b | See K1001/AIII | | | Capacitance (pF) | | | | |
| | Links to H.P. | Links to L.P. | Links to E | Links Omitted | | | | |
| | 2 | 3 | 6,7,8, 9,10, TC1, TC2. | 1,4,5. Cag | - | 1.9 | 6 per week | 1 |
| | Vh | Va | Vg | | | | | |
| c | 6.3 | 0 | 0 | Ih (A) | 0.135 | 0.165 | 100% or S | |
| d | 6.3 | 250 | -7 | Ia (mA) | 4.0 | 8.1 | 100% | |
| e | 6.3 | 250 | -7 | gm (mA/V) | 1.65 | 2.75 | 100% | |
| | Peak grid swing ± 0.5 V. max. | | | | | | | |
| f | 6.3 | 250 | -7 | /u | 21.5 | 28.5 | 100% or S | |
| g | 6.3 | 250 | -7 | Reverse Ig (uA) | - | 1.0 | 100% | |

NOTES

1:- The valve shall be subjected to either test 'a' or 'b'.