MINISTRY OF AIRCRAFT PRODUCTION (D.C.D) VALVE ELECTRONIC **CV1562** (VT13C)

Specification MAP/CV1562/Issue 3 Dated 24.10.45. To be read in conjunction with K1001 ignoring clauses:- 5.2, 5.8.	SECURITY Specification: RESTRICTED Valve: RESTRICTED

→ Indicates a change

TYPE OF VALVE :- Triode

CATHODE:- Directly heated

ENVELOPE :- Glass - unmetallised.

MARKING

See K1001/4 →

RATING

			Note
Filament Voltage	(V)	5.6	
Filament Current	(A)	1.45	
Maximum Anode Voltage	(kV)	1.5	
Maximum Anode Dissipation	(W)	30	
Amplification Factor		35	A
Mutual Conductance	(mA/V)	1.0	A
Maximum Operating Frequency	(Mc/s)	6	

BASE

L4
See K.1001 / AIV/D.6

Pin	Electrode
1	Anode
2	Filament
3	Filament
4	Grid

DIMENSIONS

See K.1001/AI/D.1.

Dimension		Min.	Max.
A	(mm)	-	122.5
B	(mm)	52	57

NOTE

A : V_a = 1 kV, V_g = 0.

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

Clause	Test Conditions				Test	Limits		No. Tested
	Vf	Va	Vg	Ia(mA)		Min.	Max.	
(a)	5.6	0	0	-	I_f (A)	1.4	1.5	100%
(b)	5.6	400	400	-	Peak I_c (mA)	80	-	100%
(c)	5.6	1kV	0	-	Ia (mA)	17	23	100%
(d)	5.6	1.5 kV.	-	Maintained at 20.	1. V_g variation during last 3 mins. (V) The variation shall have ceased within the 4 min. period.	-	10	100%
	Conditions maintained for 4 minutes.				2. I_g during test (/uA)	-	30	100%
(e)	5.6	1kV.	0	-	Anode impedance (Ω)	29,750	40,250	100%
(f)	5.6	1kV.	0	-	Amplification factor.	29.75	40.25	100%
(g)	OSCILLATION TEST. The valve shall be tested for a period of 5 minutes in a suitable oscillatory circuit at a frequency of 6 ± 0.3 Mc/s. With a mean anode voltage of 1 kV, power input of 50 watts and an anode dissipation not exceeding 30 watts, the valve shall show no signs of breakdown.							100%