MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV1503** (VR503)

Specification MAP/CV1503/Issue 4 Dated 17.1.47. To be read in conjunction with K1001.	SECURITY Specification: RESTRICTED Valve: RESTRICTED

→ Indicates a change

TYPE OF VALVE - Output Tetrode (Pentode Characteristic)

CATHODE - Indirectly heated

BULB - Glass - Unmetallised

PROTOTYPE - KT 33C

MARKING

See K1001/4

RATING			Note
Heater Voltage	(V)	26.0	A
Heater Current	(A)	0.3	A
Max. Anode Voltage	(V)	250	
Max. Screen Voltage	(V)	200	
Max. Anode Dissipation	(W)	13.0	
Max. Screen Dissipation	(W)	2.8	
Mutual Conductance	(mA/V)	10.0	B

BASE

I.O.

Pin	Electrode
1	Heater centre tap
2	Heater
3	Anode
4	Screen grid
5	Control grid
6	Pin omitted
7	Heater
8	Cathode

NOTES

A. The two halves of the heater may be connected in parallel to give a rating of 13.0 V, 0.6 A.

B. Va = Vg2 = 175V, Vg1 = -9.5V, Ia = 70mA.

DIMENSIONS

See K1001/A1/D1.

Dimension		Min.	Max.
A	(mm)	-	124
B	(mm)	-	45

To be performed in addition to those applicable in K1001

Test Conditions						Test	Limits Min.	Limits Max.	No. Tested
For the following tests, the two halves of the heater shall be connected in parallel, and if the valve is of pentode construction, the suppressor grid shall be connected to the cathode.									
	Ih	Va	Vg2	Vg1	Ia(mA)				
a	0.6	0	0	0	-	Vh (V)	11.4	14.6	100% or S
b	0.6	175	175	-	70	Vg1 (V)	-6.35	-12.65	100%
c	0.6	175	175	-	70	Ig2 (mA)	-	16.0	100% or S
d	0.6	175	175	-	70	Reverse Ig1 (µA)	-	2.5	100%
e	0.6	175	175	-	70	gm (mA/V)	7.0	13.0	100%
		Peak grid swing ±1V. max.							
f	0.6	24	24	-1.5	-	Ia (mA)	4.0	10.0	100% or S