MINISTRY OF SUPPLY (D.C.D)

VALVE ELECTRONIC **CV1502** (VR502)

Specification MAP/CV1502/Issue 5 Dated 21.7.47. To be read in conjunction with K1001.	SECURITY Specification: RESTRICTED Valve: RESTRICTED

→ Indicates a change

TYPE OF VALVE : Output Pentode or Tetrode with Pentode Characteristics

CATHODE : Indirectly heated

ENVELOPE : Glass-unmetallised

PROTOTYPE : KT32

MARKING

See K1001/4 ←

RATING

		Note
Heater Voltage (V)	26.0	
Heater Current (A)	0.3	
Max. Anode Voltage (V)	135	
Max. Screen Voltage (V)	135	
Max. Anode Dissipation (W)	10.0	
Max. Screen Dissipation (W)	1.35	
Mutual Conductance (mA/V)	10.0	A

NOTE

A. At Va = Vg2 = 135, Ia = 75 mA.

BASE

I.O.

Pin	Electrode
1	No connection
2	Heater
3	Anode
4	Screen grid
5	Control grid
6	Pin omitted
7	Heater
8	Cathode

DIMENSIONS

See K1001/AI/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
Before the following tests are made the valve shall be preheated for five minutes with Ih = 0.3A, Va = Vg2 = 135 and Ia = 75 mA. If the valve is of pentode construction the suppressor grid shall be connected to the cathode during preheating and during test.									
	Ih	Va	Vg2	Vg1	Ia(mA)				
a	0.3	0	0	0	0	Vh (V)	22.8	29.2	100% or S
b	0.3	135	135	-	75	Vg1 (V)	5.7	10.0	100%
c	0.3	135	135	-	75	Ig2 (mA)	-	10.0	100% or S
d	0.3	135	135	-	75	Reverse Ig1 (μA)	-	2.5	100%
e	0.3	135	135	-	75	gm (mA/V)	7.0	13.0	100%
	Peak grid swing ± 1.0V.max.								
f	0.3	24 through 600Ω	24	0	-	Ia (mA)	12.0	-	100% or S
g	0.3	24 through 600Ω	24	-3.0	-	Ia (mA)	-	2.0	100% or S