MINISTRY OF AIRCRAFT PRODUCTION (D.C.D.)

VALVE ELECTRONIC **CV1510**
(VT510)

Specification MAP/CV1510/Issue 5
Dated 9.1.46.
To be read in conjunction with K1001.

SECURITY	
Specification	Valve
RESTRICTED	RESTRICTED

→ Indicates a change

TYPE OF VALVE - R.F. Beam Power Amplifier.

CATHODE - Indirectly Heated

ENVELOPE - Glass - lower portion in metal shell.

MARKING

See K1001/4 →

RATING

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.6	
Max. Anode Voltage	(V)	400	
Max. Screen Voltage	(V)	250	
Max. Anode Dissipation	(W)	7.5	
Max. Screen Dissipation	(W)	1.75	
Mutual Conductance	(mA/V)	3.0	A
Max. Operating Frequency	(Mc/s)	60	

CAPACITANCES (pF)

Cae	5.4
Cge	8.2
Cag	0.07

BASE

B9G

Pin	Electrode
1	Heater
2	Anode
3	Screen Grid
4	Screen Grid
5	Shield and beam plates
6	Cathode
7	Control Grid
8	Shield and beam plates
9	Heater

DIMENSIONS

See K1001/AI/D2, with the metal sole cut away to leave no metal with-in a circle radius 3.2 mm round the anode pin. The groove referred to in note (1) of K1001/AI/D2 need not be included.

NOTE

A:- At Va = 250, Vg2 = 135, Vg1 = -10, Ia = 30mA.

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits Min.	Limits Max.	No. Tested
a	See K1001/AIII							
	Links to H.P.	Links to L.P.	Links to E		CAPACITANCES (pF)			
	2	1,3,4,5, 6,8,9,10,	7,TC1, TC2.		1. Cae	5.2	6.8	6 per week
	7	1,3,4,5, 6,8,9,10.	2,TC1, TC2.		2. Cge	7.0	9.4	
	2	7	1,3,4, 5,6,8, 9,10, TC1,TC2		3. Cag	-	0.09	T.A.
	Vh	Va	Vg2	Vg1				
b	6.3	0	0	0	Ih (A)	0.54	0.66	100% or S
c	6.3	250	135	-10	Ia (mA)	20	40	100%
d	6.3	250	135	-10	Ig2 (mA)	-	5.0	100% or S
e	6.3	250	135	-10	gm (mA/V)	2.25	3.75	100%
	Peak grid swing +1.0V.max.							
f	6.3	250	135	-10	Reverse Ig1 (/uA)	-	2.0	100%
g	6.3	250	135	-50	I a (mA)	-	1.0	100%
h	6.3	250	250	-100V D.C. plus 100V peak sinusoidal A.C. (50 c.p.s.)	Mean Ia (mA)	25	-	100%