TYPE OF VALVE - R.F. Beam Power

VALVE ELECTRONIC

Specification MAP/CV1501/Issue 8 Dated 10.3.47.	SECURITY			
To be read in conjunction with K1001.	Specification RESTRICTED	<u>Valve</u> RESTRICTED		

 Indicates	А	change
THATON NOD	a	GHOTING

TYPE OF VALVE - R.F. Beam Pow Amplifier	MARKING				
CATHODE - Indirectly he	ated	See K1001/4			
ENVELOPE - Glass - unmet					
RATING		Note	Se Khoo! /AIV/D2 M Dimension (ii) applies I.O.		
Heater Voltage (V) Beater Current (A)	6.3		Pin	Electrode	
Max. Anode Voltage (V) 300 Nax. Screen Voltage (V) 250 Max. Anode Dissipation (W) 7.5 Max. Screen Dissipation (W) 1.3 Mutual Conductance (mA/V) Grid-Screen Amplification Factor 6.7		A	1 2 3 4 5 6	No connection Heater Beam forming plates Control grid plates Screen grid Pin omitted (See Note B)	
CAPACITANCES (PF)	2.6		7 8 T. C.	Heater Cathode Anode	
Cge Cag	9.1 0.4		TOP CAP See K1001/AI/D5.2		
NOTES					

NOTES

- A. $Va = 250V_{\bullet}$, $Vg2 = 135V_{\bullet}$, Vg1 = -11.0, Ia = 30 mA.
- B. A blank pin may be supplied in position 6 of the base should a manufacturer so desire.
- C. The envelope up to a height of 36 mm. from the sole of the base shall lie wholly within a cylinder of dia. 32 mm. with its vertical axis through the centre of the spigot.

DIMENSIONS

See K1001/AI/D1

Dimension Min. Max.	
A (mm) 94.0 103.	
B (mm) - 33.	0
(See Note C)	
C (mm) 27.0 30.	1



To be performed in addition to those applicable in K1001.

				M	Limits		No.	
	Test	Conditions		Test	Min.	Max.	Tested	Note
a	See K10	O1/AIII						
	Links to H.P.	Links to L.P.	Links to E.					
	11.00	D.F.	124	CAPACITANCES (pF)				
	TC1	1,2,3,5,6, 7,8	4,9,10,				6	
		7,8	TC2	Cae	-	3.5	per	
	4	1,2,3,5,6, 7,8	9,10, TC1,TC2	Cge	-	10.5	week	
	TC1	4-	1,2,3,5, 6,7,8,9, 10, TC2	Cag	0.25	0.5		

For the following tests the beam forming plates shall be connected to the cathode

	V h	Va	Vg2	Vg1	Ia(mA)						
ъ	6.3	0	0	0	0	Ih	(A)	0.72	0.88	100% or S	
o	6.3	250	135	-	30	∇g	(V)	-8.25	- 15•5	100%	
đ	6.3	250	135	-	30	Ig2	(mA)	•	2.22	100%	
6	6.3	250 Peak	135 grid s	ving ±1.	30 OV.max.	gm	(mA/V)	2.8	4.2	100%	
f	6.3	250	135	-	30	Reverse	Ig (WA)	-	2.0	10%	
g	6.3	250	135	-50	-	Ia	(mA)	-	1.0	100%	
h	6.3	250	250	-100V. DC. +100V. Peak sinu- soidal A.C. (50 ops.)	•	Mean Ia	(mA)	25	-	100%	1
j	6.3	250	250	0	_	Ia	(mA)	160	-	100%	1

NOTE

1. Valves shall be subjected either to test 'h' or 'j'. In test 'j' the anode and screen voltages shall be applied only as long as is necessary to obtain the true anode current reading.