

Specification MAP/CV1088/Issue 5
Dated 18.1.50.
To be read in conjunction with K1001.

SECURITYSpecification

RESTRICTED

Valve

UNCLASSIFIED

—→ Indicates a change

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

CATHODE - Indirectly heated

ENVELOPE - Glass-unmetallised

PROTOTYPE - 832

MARKING

See K1001/4

PACKING

See K1005

RATING

Note

Heater Voltage	(V)	12.6	A
Heater Current	(A)	0.8	A
Max. Anode Voltage	(V)	500	
Max. Screen Voltage	(V)	250	
Max. Anode Dissipation (total for both units)	(W)	15.0	
Max. Screen Dissipation (total for both units)	(W)	3.5	
Mutual Conductance	(mA/V)	3.0	B
Max. Operating Frequency	(Mc/s)	200	

BASE

None

Pin

Electrode

1	Heater
2	Control grid B
3	Screen grids
4	Cathodes
5	Heater Centre Tap
6	Control grid A
7	Heater
TC1	Anode A
TC2	Anode B

CAPACITANCES (pF)

Ca-all (each unit)	3.8
Cg1-all (each unit)	8.6
Ca-g max. (each unit)	0.05
Cscreen-c	60.0

DIMENSIONS

See drawing on page 3.

NOTES

- A. The two halves of the heater may be connected in parallel to give a rating of 6.3V., 1.6A.
- B. $V_a = 250$, $V_{g2} = 135$, $V_{g1} = -10.0$, $I_a = 30\text{mA}$.
- C. A by-pass condenser, connected between the screen grid pin and the cathodes, shall be incorporated in the structure, and shall be below the internal screen.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Notes
					Min.	Max.		
a	See K1001/AIII			<u>CAPACITANCES (pF)</u>			6 per week	1
	Links to H.P.	Links to L.P.	Links to E.					
	TC1	1,3,4,5,7	2,6,8,9,10, TC2		2.9	4.7		
	TC2	1,3,4,5,7	2,6,8,9,10, TC1		2.9	4.7		
	6	1,3,4,5,7	2,8,9,10 TC1, TC2		7.5	9.7		
	2	1,3,4,5,7	6,8,9,10 TC1, TC2		7.5	9.7		
	TC1	6	1,2,3,4,5,7,8,9,10, TC2		-	0.05		
	TC2	2	1,3,4,5,6,7,8,9,10, TC1		-	0.05		
	3	4	1,2,5,6,7,8,9,10 TC1, TC2	C screen-c	50.0	70.0		

The following tests shall be made with the heaters of the two units connected in series.

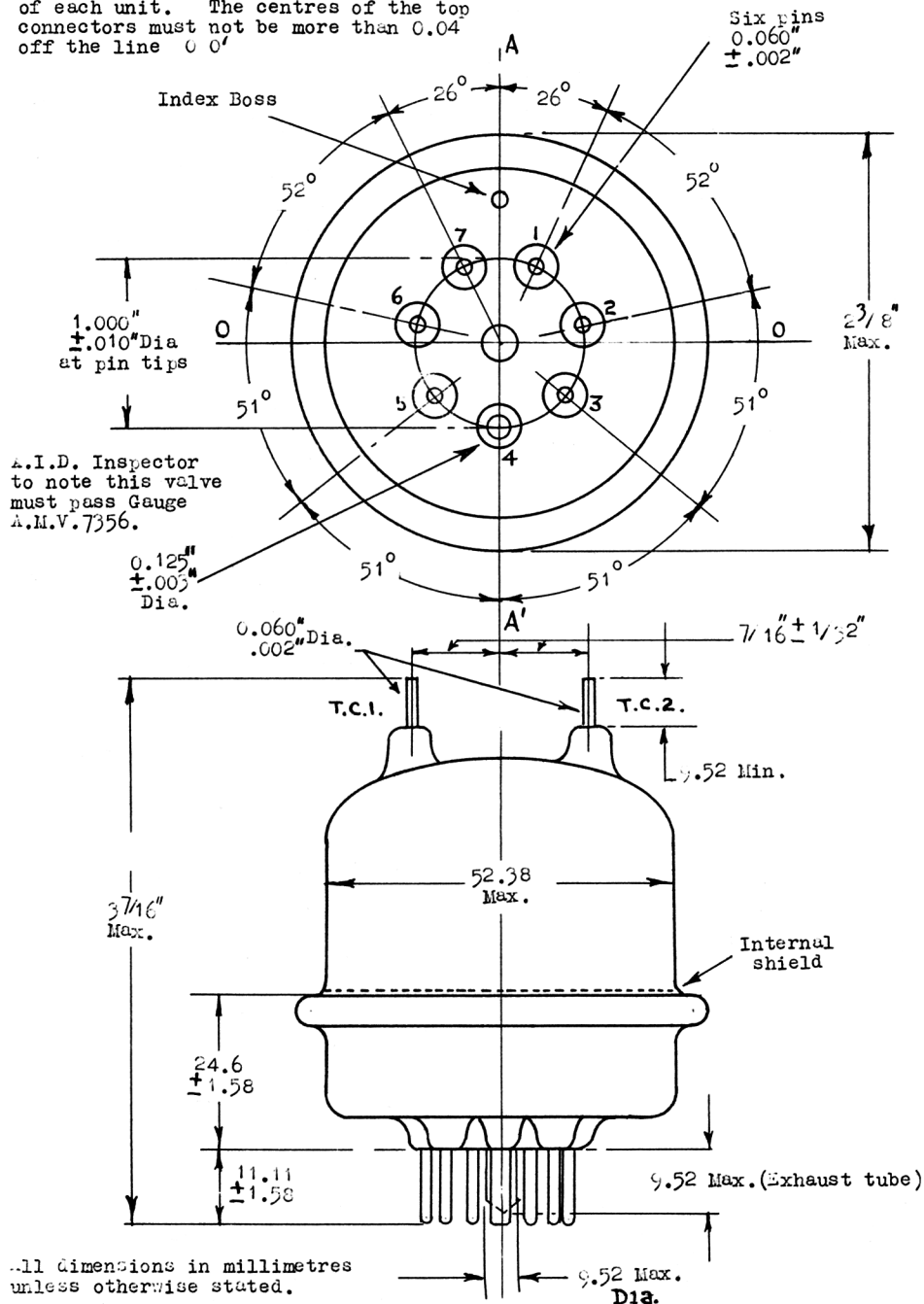
	Vh	Va	Vg2	Vg1					
b	12.6	0	0	0	Ih (A)	0.72	0.88	100% or S	
c	12.6	250	135	-10	Ia (mA)	20.0	40.0	100%	2
d	12.6	250	135	-10	Ig2 (mA)	-	5.0	100% or S	
e	12.6	250	135	-10	gm (mA/V)	2.25	3.75	100%	2
	Peak grid swing $\pm 1.0V$. max.								
f	12.6	250	135	-10	Reverse Ig1 (μA)	-	2.0	100%	2
g	12.6	250	135	-50	Ia tail (mA)	-	1.0	100%	2
h	12.0	250	250	-100DC +100V. max. sinusoidal.	Mean Ia (mA)	20	-	100%	2

NOTES

- When measuring Cag the valve shall be mounted with an external electrostatic screen in the plane of the internal screen employed in the construction of the valves.
- Tests c, e, f, g and h shall be applied to each unit of the valve.

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A A' is parallel to plane of electrodes of each unit. The centres of the top connectors must not be more than 0.04 off the line O O'



All dimensions in millimetres
unless otherwise stated.