MINISTRY OF SUPPLY (DCD)

VALVE ELECTRONIC

CV1088

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

SECURITY	
Specification	Valve
RESTRICTED	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	

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

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

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. Va = 250, Vg2 = 135, Vg1 = -10.0, Ia = 30mA.

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							
	Links to H.P.	Links to L.P.	Links to E.	CAPACITANCES (pF)				
	TC1	1,3,4,5,7	2,6,8,9, 10, TC2	CaA-e	2.9	4.7	6 per week	
	TC2	1,3,4,5,7	2,6,8,9, 10,TC1	CaB-e	2.9	4.7		
	6	1,3,4,5,7	2,8,9,10 TC1,TC2	CgA-e	7.5	9.7		
	2	1,3,4,5,7	6,8,9,10 TC1,TC2	CgB-e	7.5	9.7		
	TC1	6	1,2,3,4, 5,7,8,9, 10,TC2	CaA-gA	-	0.05		1
	TC2	2	1,3,4,5, 6,7,8,9, 10,TC1	CaB-gB	-	0.05		
	3	4	1,2,5,6, 7,8,9,10 TC1,TC2	C screen-c	50.0	70.0		

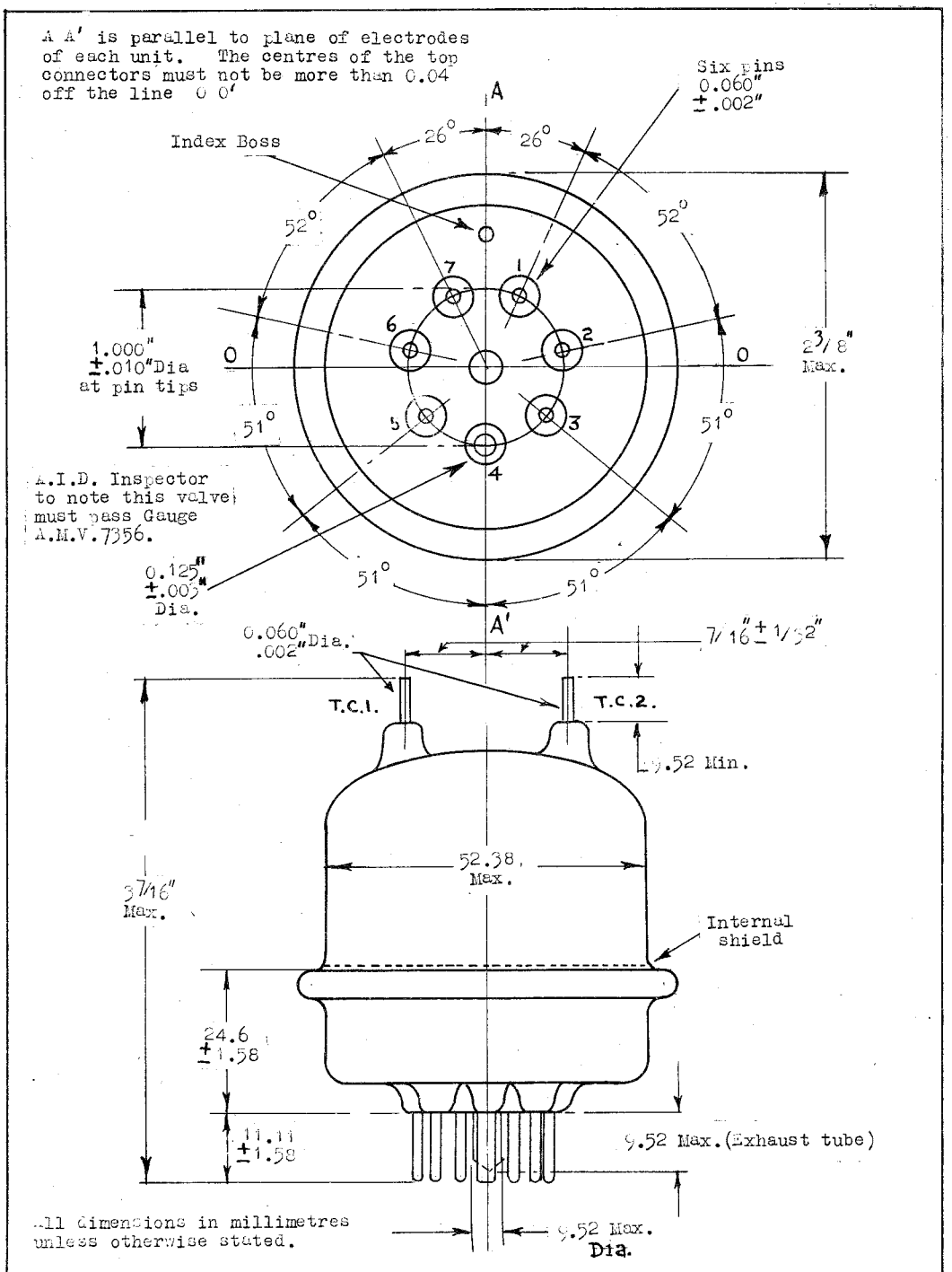
The following tests shall be made with the heaters of the two units connected in series.

	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 ±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

1. 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.
2. Tests c, e, f, g and h shall be applied to each unit of the valve.

CV1088


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'
Six pins 0.060" ±.002"
Index Boss
A
A'
26°
26°
52°
52°
51°
51°
51°
51°
1.000" ±.010"Dia at pin tips
2 3/8" Max.
A.I.D. Inspector to note this valve must pass Gauge A.M.V.7356.
0.125" ±.005" Dia.
0.060" Dia. .002"
7/16" ± 1/32"
T.C.1.
T.C.2.
9.52 Min.
52.38 Max.
3 7/16" Max.
Internal shield
24.6 ±1.58
11.11 ±1.58
9.52 Max.(Exhaust tube)
All dimensions in millimetres unless otherwise stated.
9.52 Max. Dia.