

MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

Specification MOSA/CV 315 Issue 6 Dated 1.11.54 To be read in conjunction with B.S.1409 and K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

-----> Indicates a change

TYPE OF VALVE - Triode, R.F. Amplifier Oscillator	<u>MARKING</u>
CATHODE - Directly heated, thoriated tungsten	See K.1001/4
ENVELOPE - Glass, unmetallised	<u>BASE</u>
PROTOTYPE - DET 12, 4304 C.B.	B4

	Note	<u>CONNECTIONS</u>	
Filament Voltage (V)	7.5	Pin	Electrode
Filament Current (A)	3.2		
Max. Anode Voltage (V)	1250	1	N.C.
Max. Anode Dissipation (W)	50	2	N.C.
Amplification Factor	10	3	f
Anode Impedance (Ω)	5000	4	f
Mutual Conductance (mA/V)	2	TC1	a
Max. Frequency for above ratings (Mc/s)	100	TC2	g

<u>CAPACITANCES</u> (pF)		<u>TOP CAPS AND DIMENSIONS</u>
C in (Max.)	2.5	See Page 3
C out (Max.)	1.0	
Ca, g (Max.)	3.5	

<u>PACKING</u> See R.A.E. Drawing RAD.18925

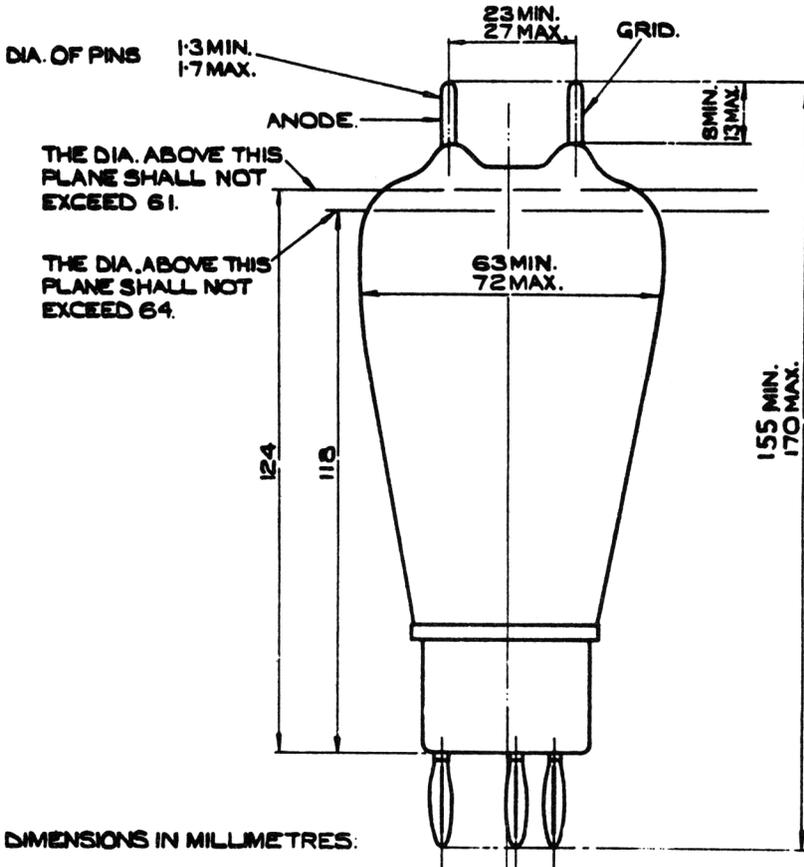
NOTE

- A. $V_a = 1000V$, $I_a = 50 \text{ mA}$
- B. Valves to be supplied in matched pairs which must agree in grid voltage to within \mathcal{M} in test (d). In addition to the normal marking, cartons are to be marked with the words "one pair of matched valves".

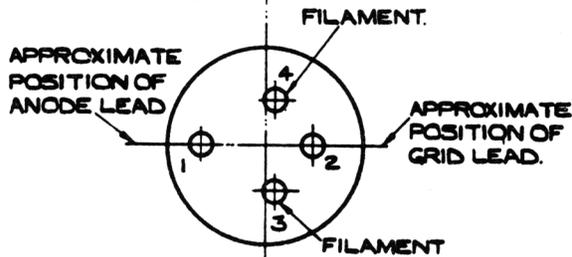
To be performed in addition to those applicable in K.1001

	Test Conditions				Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K.1001/AIII Measured using Adaptor Type 35 (Ref. No. 10A/13331)				<u>CAPACITANCES (pF)</u>				
	Links to H.P.	Links to L.P.	Links to E						
	TC2	3,4	1,2,5,6,7,8,9,10,TC1		C in	-	2.5	6	
	TC1	3,4	1,2,5,6,7,8,9,10,TC2		C out	-	1.0	per	
	TC1	TC2	1,2,3,4,5,6,7,8,9,10		Ca,g	-	3.5	Week	
b	Vf (AC or DC)	Vg	Va	Ia (mA)					
	7.5	0	0	0	If (A)	2.8	3.6	100% or S	
c	adjusted	0	1000	10	Vf (Emission Test) (V)	-	4	100%	
d	7.5 D.C. 7.5 A.C.	Adjust	800	60	Vg (V)	-30 -34	-50 -54	100%	
e	7.5	Adjust	800	50	Change in Vg from value in test (d) (V)	3	6	100%	
f	7.5	Adjust	1000	50	Change in Vg from value in test (e) (V)	18	24	100% or S	
g	7.5	Adjust	1000	50	Reverse Ig (after three minutes) (μA)	-	2	100%	
h	7.5	-100	1000	-	Ia (mA)	-	20	100%	
j	<p><u>DYNAMIC TEST</u></p> <p>The valve will be tested as an amplifier at a frequency of 125 Mc/s in Transmitter T1131A using Drive Unit Type 26 to give a D.C. grid current of not less than 10 mA.</p> <p>In this equipment the following conditions exist:-</p> <p style="padding-left: 40px;">Va = 900V, Rg1 = 6.8 kΩ, Rk = 1 kΩ</p> <p>The R.F. Power output from the anode circuit shall not be less than 50W.</p>							T/A	

NOTES



ALL DIMENSIONS IN MILLIMETRES:



VIEW OF UNDERSIDE OF BASE

NOTE:- ANODE AND GRID LEADS TO LIE ON THE SAME SIDES OF CENTRE LINE AND IN THE SAME PLANE AS BASE PINS NO^s 1&2, RESPECTIVELY.