## 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 Kl001											
TYPE OF VALWE - Triode, R.F. Amplifier Oscillator											
CATHODE - Directly heated, thoriated tungsten											
ENVELOPE - Glass, unmetallised											
PROTOTYPE - DET 12, 4304 C.B.											
Note											
7.5 3.2 1250 50 10 5000 2 100	A A	Pin	Electrode								
		1		N.C. N.C.							
		3		f							
		TC1 TC2	,	a g							
			L								
2 5		TOP CAPS AND DIMENSIONS									
1.0		See Page 3									
	7.5 3.2 1250 500 10 5000 2 100	Oscillator ted tungsten  Note  7.5 3.2 1250 50 10 2 100  2.5 1.0	Indicates a character	Oscillator  ted tungsten  Note  Pin  3.2 1250 500 A 5000 A 2 100  AND DIME  OSCILLATOR  MARK  See K.10  CONNEC  Pin  1 2 1 7.5 3.2 1250 CONNEC  AND DIME							

PACKING
See R.A.E. Drawing
RAD.18925

## NOTE

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

CV315

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

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	Test Conditions				Test	<b>Idmits</b>		No.	Note	
					1650	Min.	Max.	Tested	11000	
а	See K.1001, Measured us (Ref. 1	/AIII sing Adaptor Type 35 No. 10A/13331)			CAPACITANCES (pF)					
	Links to H.P.	Links to L.P.	Links to E		ч					
	TC2	3 <sub>9</sub> 4	1,2,5,6,7, 8,9,10,TC1		C in	-	2•5	6		
	TCl	3,4	1,2,5,6,7, 8,9,10,T02		C out	-	ΣW	per		
	TCl	TC2	1,2,3,4,5, 6,7,8,9,10		Ca,g	-	3•5	Week		
	Vf (AC or DC)	٧g	Va	Ia (mA)				100%		
р	7•5	0	0	0	If (A)	2.8	<b>3.</b> 6	or S		
0	adjus <b>te</b> d	0	1000	10	Vf (Emission Test) (V)	-	4	100%		
đ	7.5 D.C. 7.5 A.C.	Adjust	800	60	Vg (V)	-30 -34	59.4 15.4	100%		
е	7•5	Adjust	800	50	Change in Vg from value in test (4) (V)	3	6	100%		
f	7•5	Adjust	1000	5C	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) $(\mu A)$	-	2	100%		
h	7•5	-100	1000	•	Ia (mA)	-	20	100%		
	DYNAMIC TES	3T								
	The valve will be tested as an amplifier at a frequency of 125 Mc/s in Transmitter Tll31A using Drive Unit Type 26 to give a D.C. grid current of not less than 10 mA.									
3	In this									
	$Va = 900V, Rg1 = 6.8 k\Omega, Rk = 1 k\Omega$									
	The R.F. Power output from the anode circuit shall not be less than 50W.									
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NOTES