

RRE

Specification MAP/CV1099/Issue 5 Dated 21.7.50 To be read in Conjunction with K1001.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

—→Indicates a change

<u>TYPE OF VALVE:</u> Triode Hexode			<u>MARKING</u> See K.1001/4		
<u>CATHODE:</u> Indirectly heated.					
<u>ENVELOPE:</u> Glass-unmetallised.					
<u>PROTOTYPE:</u> X66					
<u>RATING</u>			Note	See K1001/AI/D2	
				M Dimension <u>BASE</u>	
				(ii) applies I.O.	
Heater Voltage (V)			6.3	A	
Heater Current (A)			0.3		
Max. Anode Voltage (V)			250		
Max. Screen Voltage (V)			100		
Conversion Conductance (mA/V)			0.225	B	
<u>CAPACITANCES (pF)</u>					
Signal grid to all other electrodes except hexode anode			3.4		
Hexode anode to all other electrodes except signal grid			7.9		
Oscillator Anode to all other electrodes except oscillator grid			3.4		
Oscillator grid to all other electrodes except oscillator anode			7.4		
<u>NOTES</u>					
A: Valve shall be capable of satisfactory operation over a heater voltage range of 5.7V. to 7.5V.					
B: At $V_a = 250$, $V_{g2,4} = 100$, $V_{g1} = -3$.					

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No.	Note		
								Min.	Max.	Tested			
a	See K1001/ATII using adaptor type 44							CAPACITANCES (pF)	2.9	3.9	6 per week		
	Links to H.P.		Links to L.P.		Links to E.								
	T.C.1.		1,2,4,5,6,7,8.		3,9,10, T.C.2.		1. Signal grid to all other electrodes except hexode anode.						
	3		1,2,4,5,6,7,8.		9,10,T.C.1, T.C.2.		2. Anode to all other electrodes except signal grid.						
	5		1,2,3,4,7,8, T.C.1.		6,9,10, T.C.2.		3. Oscillator grid to all other electrodes except oscillator anode.						
	6		1,2,3,4,7,8, T.C.1.		5,9,10, T.C.2.		4. Oscillator anode to all other electrodes except oscillator grid.						
b	Vh	Va	Vg2,4	Vao	Vg1	Vgo3	Ih (A)	-	0.37	100% or S			
c	6.3	250	100	100	-3	10V. peak AC applied through 50 K Ω	Ic (mA)	7.7	14.5	100%			
d	6.3	250	100	100	-3	as in clause 'c'	Conversion Conductance (μ A/V)	145	305	100%			
e	6.3	250	100	100	-3	as in clause C	Reverse Ig1 (μ A)	-	1.0	100%			
f	6.3	250	100	0	-20	as in clause C	Ia (μ A)	3	300	100%			
g	Valve shall be tested in a chassis with a circuit as shown on page 3. The test chassis used shall be of an approved construction and calibrated against a reference chassis held at the Royal Aircraft Establishment, Farnborough. Test shall be made in position 1, range 1, at Vh = 5.7V. (measured at valve pins)							H.F. OSCILLATION TEST		68	-	100%	1
								Ig1 (μ A)					

NOTES

- 1: Test to be of duration sufficient only to enable the test reading to be taken, and must not be repeated.

