

Specification MAP/CV1099/Issue 5 Dated 21.7.50 To be read in Conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE:</u> Triode Hexode <u>CATHODE:</u> Indirectly heated. <u>ENVELOPE:</u> Glass-unmetallised. <u>PROTOTYPE:</u> X66		<u>MARKING</u> See K.1001/4			
<u>RATING</u>		<u>BASE</u> I.O.			
Heater Voltage (V)	6.3	Note A	Pin	Electrode	
Heater Current (A)	0.3		1	No connection	
Max. Anode Voltage (V)	250		2	Heater	
Max. Screen Voltage (V)	100		3	Anode	
Conversion Conductance (mA/V)	0.225		4	Screen grid (G2, 4)	
<u>CAPACITANCES (pF)</u> Signal grid to all other electrodes except hexode anode Hexode anode to all other electrodes except signal grid		B	5	Oscillator grid (G0, 3)	
			6	Oscillator anode	
Oscillator Anode to all other electrodes except oscillator grid Oscillator grid to all other electrodes except oscillator anode		7.9	7	Heater	
			8	Cathode	
T.C.		7.4	T.C.	Signal grid (G1)	
			<u>PLUG TOP CAP</u> See K1001/AI/D5.2		
<u>NOTES</u> A: Valve shall be capable of satisfactory operation over a heater voltage range of 5.7V. to 7.5V. B: At $V_a = 250$, $V_{g2,4} = 100$, $V_{g1} = -3$.		<u>DIMENSIONS</u> See K1001/AI/D1			
		<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
		A	(mm)	106	114
		B	(mm)	-	39.6
		C	(mm)	-	30
		D	(mm)	-	30

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested	Note	
								Min.	Max.			
a	See K1001/ATII using adaptor type 44						<u>CAPACITANCES (pF)</u>	2.9	3.9	6	per week	
	Links to H.P.	Links to L.P.	Links to E.									1. Signal grid to all other electrodes except hexode anode.
	T.C.1.	1,2,4,5,6,7,8.	3,9,10, T.C.2.									
	3	1,2,4,5,6,7,8.	9,10,T.C.1, T.C.2.									
	5	1,2,3,4,7,8, T.C.1.	6,9,10, T.C.2.									
6	1,2,3,4,7,8, T.C.1.	5,9,10, T.C.2.				2. Anode to all other electrodes except signal grid.	6.0	9.4				
							6.3	8.5				
							2.5	4.0				
b	Vh	Va	Vg2,4	Vao	Vg1	Vgo3	Ih (A)	-	0.37	100% or S		
c	6.3	0	0	0	0	0	Ic (mA)	7.7	14.5	100%		
d	6.3	250	100	100	-3	10V. peak AC applied through 50 KΩ	Conversion Conductance (μA/V)	145	305	100%		
e	6.3	250	100	100	-3	as in clause c	Reverse Ig1 (μA)	-	1.0	100%		
f	6.3	250	100	0	-20	as in clause c	Ia (μA)	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)						<u>H.F. OSCILLATION TEST</u>	Ig1 (μA)	68	-	100%	1

NOTES

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

