

Specification MAP/CV1102/Issue 6 Dated 6.11.49 To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE:</u> Double Triode	<u>MARKING</u>
<u>CATHODE:</u> Indirectly heated	See K.1001/4
<u>ENVELOPE:</u> Glass unmetallised	<u>PACKING</u>
<u>PROTOTYPE:</u> BL63	See K.1005
	<u>BASE</u> I.O.

<u>RATING</u>		Note	Pin	Electrode	
Heater Voltage (V)	6.3	A	1	No connection	
Heater Current (A)	1.3		2	Heater	
Maximum Anode voltage (V)	250		3	Anode 2	
Anode current (mA)	12	B	4	Cathode 2	
Mutual Conductance (mA/V)	2.5	B	5	Grid 1	
			6	Anode 1	
			7	Heater	
			8	Cathode 1	
			T.C.	Grid 2	
Plug top cap - see K1001/A1/D5.2					
<u>DIMENSIONS</u>					
See K1001/A1/D1					
			<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
			A (mm)	114	134
			B (mm)	-	45
			C (mm)	-	35

NOTES

- A. Valve shall be capable of satisfactory operation over a heater range of 5.7 to 7.5 volts.
- B At $V_a = 200$ $V_g = -12$, applies to each half of the valve.

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

Clause	Tests Conditions			Test	Limits		No. Tested	Note	
					Min.	Max			
a	Vh	Va	Vg	Ih (A)	1.2	1.4	100% or S		
	6.3	0	0						
b	6.3	200	-12	Reverse Ig	-	1.5	100% or S	1	
c	Valve shall be tested in a chassis with a circuit as shown on page 3 figure 1. The test chassis used shall be of an approved construction and calibrated against a reference chassis held at the Royal Aircraft Establishment, Farnborough. The test shall be made with Vh = 5.7 and with an input voltage of 20 to 25 volts at 50 c.p.s. between the two grids. Before the test is made adequate time should be allowed for the test chassis to attain a constant temperature.			<u>Anode Current Unbalance Test</u>		-	20	100%	
				1. After a period of 10 minutes of which up to 9 minutes may be with heater voltage only applied. Anode current unbalance (μ A).					
				2. Change in unbalance including any chassis drift, after a further period of 2 minutes (μ A)		-	3	100%	
d	Valve shall be tested in a chassis with a circuit as shown on page 3, figure 2. Before the test is made the valve shall be pre-heated for 6 minutes with Vh = 5.7 volts.			Anode Current (mA)	3.0	-	100%		

NOTES

1. Test to be applied to each half of the valve.

FIG. 1

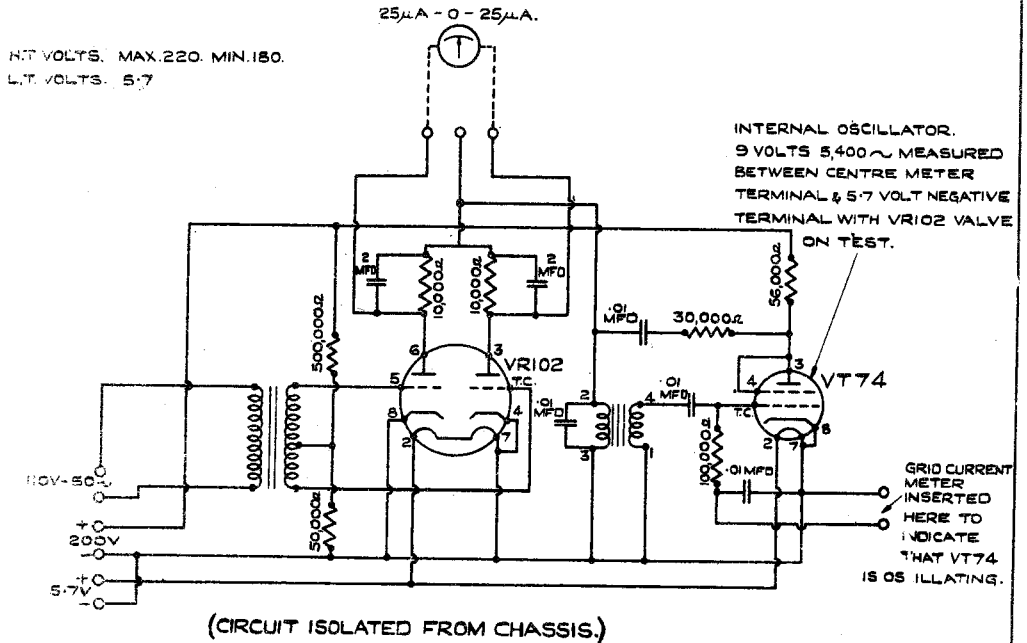


FIG. 2

