

RFE

Specification MAP/CV1102/Issue 6 Dated 6.1.49 To be read in conjunction with K1001.	SECURITY	
	Specification RESTRICTED	Valve UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE: Double Triode				MARKING	
CATHODE: Indirectly heated				See K.1001/4	
ENVELOPE: Glass unmetallised				PACKING	
PROTOTYPE: BL63				See K.1005	
				BASE	
				I.O.	
				See K1001/H10/D2 M dimension (V) applies	
RATING		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	
				DIMENSIONS	
				See K1001/A1/D1	
			Dimension	Min.	Max.
			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> 1. After a period of 10 minutes of which up to 9 minutes may be with heater voltage only applied. Anode current unbalance ( $\mu$ A). 2. Change in unbalance including any chassis drift, after a further period of 2 minutes ( $\mu$ A)	-	20	100%	
					-	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

25 $\mu$ A - 0 - 25 $\mu$ A.

H.T. VOLTS. MAX.220. MIN.180.

L.T. VOLTS. 5.7

INTERNAL OSCILLATOR.  
9 VOLTS 5,400 ~ MEASURED  
BETWEEN CENTRE METER  
TERMINAL & 5-7 VOLT NEGATIVE  
TERMINAL WITH VR102 VALVE  
ON TEST.

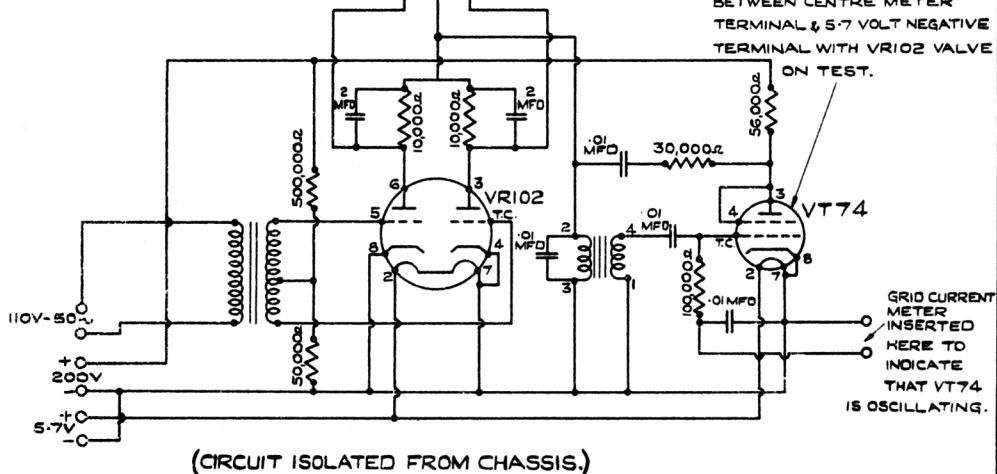


FIG. 2

