

Specification MAP/CV1107/Issue 3 Dated 10.1.50. 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> - Heptode Frequency Changer <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass-unmetallised <u>PROTOTYPE</u> - 15D2			<u>MARKING</u> See K1001/4				
			<u>PACKING</u> See K1005				
<u>RATING</u>		Note	<u>BASE</u> B7				
Heater Voltage (V)	13.0		Pin	Electrode			
Heater Current (A)	0.15		1	Oscillator anode			
Max. Anode Voltage (V)	250		2	Oscillator grid			
Max. Screen Voltage (V)	100		3	Screen grids			
Max. Oscillator Anode Voltage (V)	200		4	Heater			
Conversion Conductance (μ ohms)	550	A	5	Heater			
			6	Cathode			
			7	Anode			
			T.C.	Signal grid			
<u>NOTE</u> A. $V_a = 250, V_{g3} = 100, V_{g2} = 200,$ $V_{g4} = -3.0$			<u>TOP CAP</u> See K1001/AI/D5.1				
			<u>DIMENSIONS</u> See K1001/AI/D1.				
			<u>Dimensions</u>		<u>Min.</u>	<u>Max.</u>	
			A	(mm)	108	117	
B	(mm)	-	39				
C	(mm)	-	35				

To be performed in addition to those applicable in K1001.

	Test Conditions						Test	Limits		No. Tested			
								Min.	Max.				
a	See K1001/AIII						<u>CAPACITANCES (pF)</u>			6 per week			
	Links to H.P.	Links to L.P.	Links to E								1. Ca-all (less g4)	8.1	10.9
	7	1,2,3,4,5, 6	8,9,10, TC1,TC2								2. Cg4-all (less a)	6.4	8.6
	TC1	1,2,3,4,5, 6	7,8,9, 10,TC2								3. Cg2-all (less g1)	3.9	5.3
	1	3,4,5,6,7, TC1	2,8,9, 10,TC2								4. Cg1-all (less g2)	5.3	7.1
b	Vh	Va	Vg3	Vg2	Vg4	Ig (μ A)	Ih (A)	0.135	0.165	100% or S			
	13.0	0	0	0	0	0							
c	13.0	30V. applied to all other electrodes strapp- ed					Ic (mA)	50.0	-	100%			
d	13.0	250	100	200	-3	400	Ia (mA)	3.0	6.5	100%			
		See Fig.1 page 3											
e	13.0	As in test 'd'					Ig3 (mA)	2.0	5.0	100% or S			
f	13.0	As in test 'd'					Ig2 (mA)	3.8	7.6	100%			
g	13.0	As in test 'd'					Reverse Ig4 (μ A)	-	3.0	100%			
h	13.0	As in test 'd'					gm (tetrode) (mA/V)	0.7	-	100%			
j	13.0	250	100	200	-30	400	Ia (mA)	-	0.55	100%			
		See Fig.1, page 3											
k		See Fig.2, page 3					Ig1 (μ A)	4.5	-	100%			

FIG. 1

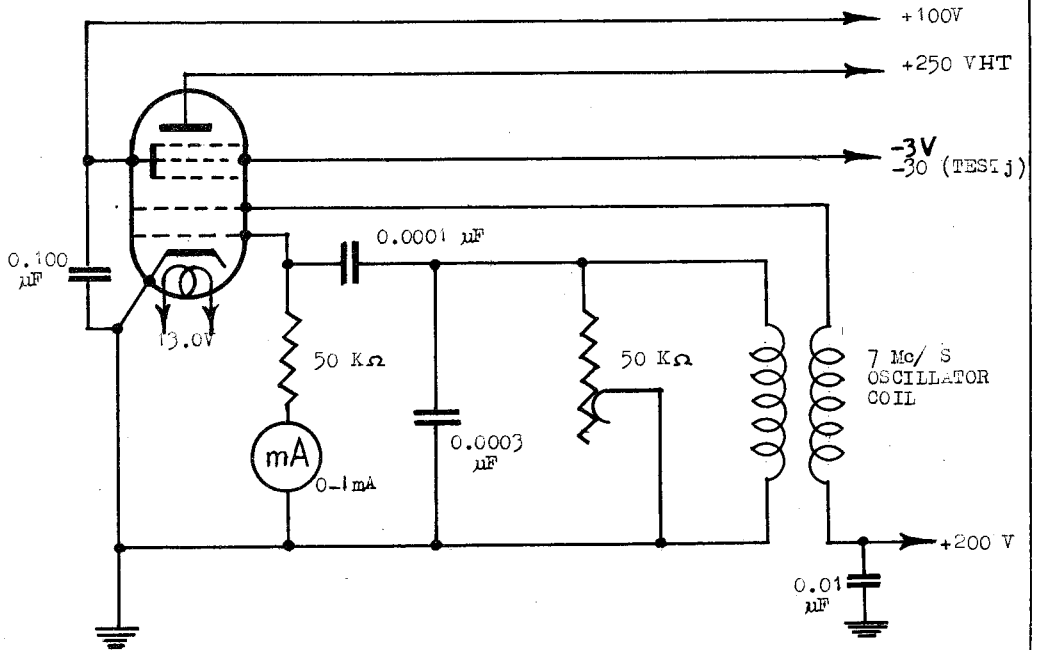


FIG. 2

