MINISTRY OF SUPPLY (DCD)

VALVE ELECTRONIC **CV1107**

Specification MAP/CV1107/Issue 3
Dated 18.1.50.
To be read in conjunction with K1001.

SECURITY	
Specification	Valve
RESTRICTED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Heptode Frequency Changer

CATHODE - Indirectly heated

ENVELOPE - Glass-unmetallised

PROTOTYPE - 15D2

MARKING

See K1001/4

PACKING

See K1005

RATING

		Note
Heater Voltage (V)	13.0	
Heater Current (A)	0.15	
Max. Anode Voltage (V)	250	
Max. Screen Voltage (V)	100	
Max. Oscillator Anode Voltage (V)	200	
Conversion Conductance (μohms)	550	A

BASE

B7

Pin	Electrode
1	Oscillator anode
2	Oscillator grid
3	Screen grids
4	Heater
5	Heater
6	Cathode
7	Anode
T.C.	Signal grid

NOTE

A. Va = 250, Vg3 = 100, Vg2 = 200, Vg4 = -3.0

TOP CAP

See K1001/AI/D5.1

DIMENSIONS

See K1001/AI/D1.

Dimensions		Min.	Max.
A	(mm)	108	117
B	(mm)	-	39
C	(mm)	-	35

To be performed in addition to those applicable in K1001.

	Test Conditions						Test	Limits Min.	Limits Max.	No. Tested
a	See K1001/AIII									
	Links to H.P.		Links to L.P.		Links to E		CAPACITANCES (pF)			
	7		1,2,3,4,5, 6		8,9,10, TC1,TC2		1. Ca-all (less g4)	8.1	10.9	6 per week
	TC1		1,2,3,4,5, 6		7,8,9, 10,TC2		2. Cg4-all (less a)	6.4	8.6	
	1		3,4,5,6,7, TC1		2,8,9, 10,TC2		3. Cg2-all (less g1)	3.9	5.3	
	2		3,4,5,6,7, TC1		1,8,9, 10,TC2		4. Cg1-all (less g2)	5.3	7.1	
	Vh	Va	Vg3	Vg2	Vg4	Ig (μA)				
b	13.0	0	0	0	0	0	Ih (A)	0.135	0.165	100% or S
c	13.0	30V. applied to all other electrodes strapped					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 (μA)	-	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 (μA)	45	-	100%

CV1107

FIG.1

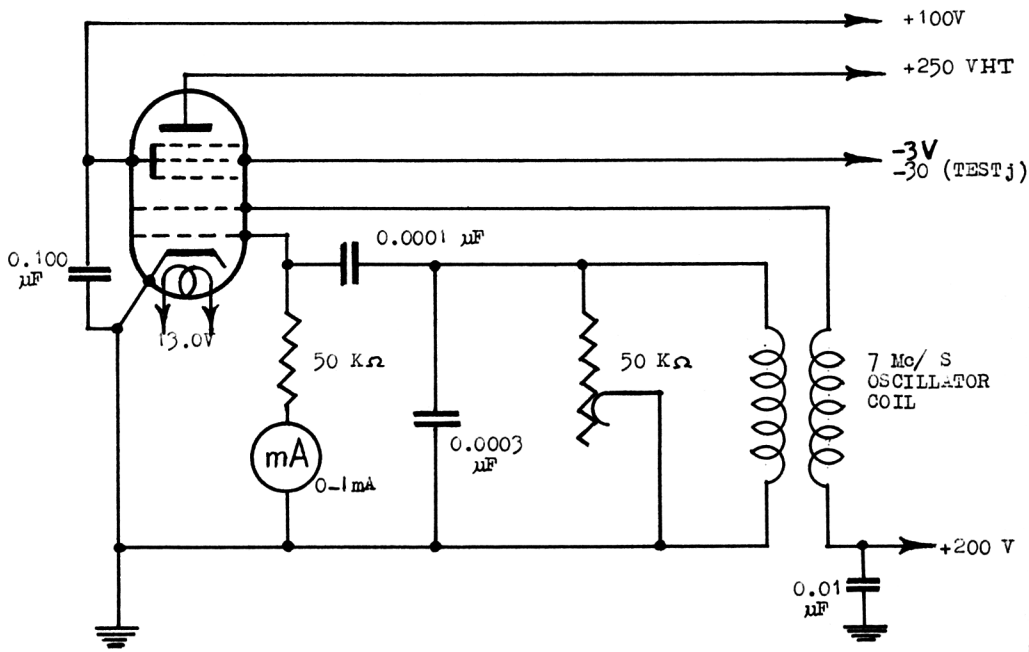

FIG. 2