MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV1057**

Specification MAP/CV1057/Issue 6 Dated 6.1.49 To be read in conjunction with K.1001	SECURITY	
	Specification	Valve
	RESTRICTED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE: Octode Frequency Changer.

CATHODE: Indirectly heated.

ENVELOPE: Glass Metallised

PROTOTYPE: E.K.32.

MARKING

See K1001/4

PACKING

See K1005

BASE

I.O.

RATING			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.2	
Max. Anode Voltage	(V)	300	
Max. Screen Voltage	(V)	125	
Max. Anode dissipation	(W)	1.0	
Max. Screen dissipation	(W)	0.3	
Max. Oscillator Anode Voltage	(V)	225	
Conversion Conductance	(mA/V)	0.55	A
Anode Impedance	(MΩ)	2.0	A

Pin	Electrode
1	Metallising
2	Heater
3	Anode
4	Screen Grid (G3,G5)
5	Oscillator Grid (G1)
6	Oscillator Anode (G2)
7	Heater
8	Cathode and Suppressor Grid (G6)
T.C.	Signal Grid (G4)

NOTE

A: At Va = 250, $V_{g3, 5}$ = 50, V_{g2} = 200, I_a = 1 mA.

TOP CAP

See K1001/AI/D5.2

DIMENSIONS

See K1001/AI/D1.

Dimensions		Min.	Max.
A	(mm)	95	100
B	(mm)	-	36

CV1057

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested
	Vh	Va	Vg4	Vg2	Vg1	Ig3,5 (mA)		Min.	Max.	
a	6.3	0	0	0	0	-	Ih (A)	0.18	0.22	100% or S
b	6.3	70	-3	0	-3	1.8	Vg 3,5 (V)	60	72.5	100%
c	6.3	70	-3	0	-3	1.8	$\left(\frac{dIa}{dVg4}\right)_{gm}$ (mA/V)	0.42	-	100%
	Peak grid (g4) swing ± 0.5V. max.									
d	6.3	70	-3	0	-3	1.8	$\left(\frac{dIa}{dVg1}\right)_{gm}$ (mA/V)	0.3	0.55	100%
	Peak grid swing (g1) ± 0.5V. max.									
e	6.3	70	-3	0	-3	1.8	Reverse Ig4 (μA)	-	1.0	100%
f	6.3	70	-3	0	-3	1.8	Reverse Ig1 (μA)	-	1.0	100%