MINISTRY OF SUPPLY (DCD)

VALVE ELECTRONIC **CV1000**
(NR55, AR7, VR109A)

Specification MAP/CV1000/Issue 5 Dated 16.9.47. To be read in conjunction with K1001.	SECURITY Specification: RESTRICTED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Triode
CATHODE - Indirectly heated
ENVELOPE - Glass-unmetallised
PROTOTYPE - 4D1

MARKING

See K1001/4 ←

RATING

		Note
Heater Voltage (V)	13.0	
Heater Current (A)	0.15	
Max. Anode Voltage (V)	250	
Mutual Conductance (mA/V)	4.0	A
Amplification Factor	40	A
Anode Impedance (Ω)	10000	A

NOTE

A. At Va = 250, Vg = -3.0.

BASE

B7

Pin	Electrode
1	No connection
2	No connection
3	No connection
4	Heater
5	Heater
6	Cathode
7	Anode
T.C.	Grid

TOP CAP

See K1001/AI/D5.1

DIMENSIONS

See K1001/AI/D1.

Dimension		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	TC1	1,2,3, 4,5,6,8, 9,10,TC2	Cag	2.2	3.2	6 per week
	7	1,2,3,4, 5,6	8,9,10, TC1,TC2	Cae	2.6	5.3	
	TC1	1,2,3,4, 5,6	7,8,9, 10,TC2	Cge	2.6	4.2	
	Vh	Va	Vg				
b	13.0	0	0	Ih (A)	0.135	0.165	100% or S
c	13.0	250	-3.0	Ia (mA)	7.0	13.0	100%
d	13.0	250	-3.0	gm (mA/V)	3.5	-	100%
		Peak grid swing ±0.5V. max.					
e	13.0	250	-3.0	Reverse Ig(μA)	-	2.0	100%
f	13.0	250	-3.0	μ	32.0	48.0	100% or S
g	13.0	250	-8.0	Ia (mA)	-	1.25	100%
h	13.0	30V. applied to anode and grid strapped		Ic (mA)	50	-	100%