MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV63**

Specification MAP/CV63/Issue 8
Dated 11.3.47.
To be read in conjunction with K1001

SECURITY

Specification	Valve
[redacted]	[redacted]

→ Indicates a change

TYPE OF VALVE - Triode

CATHODE - Indirectly heated

ENVELOPE - Glass - unmetallised

PROTOTYPE - E1323

MARKING

See K1001/4

BASE

I.O.

RATING		Note
Heater Voltage (V)	6.3	
Heater Current (A)	0.8	
Max. Anode Voltage (kV)	2.5	
Max. Anode Dissipation (W)	2.5	
Max. Anode Current (approx. mean peak) (mA)	500	
Mutual Conductance (mA/V)	6.7	A
Efficiency at 225 Mc/s operating frequency	35%	
" " 260 Mc/s "	32%	
" " 290 Mc/s "	17%	
" " 300 Mc/s "	12%	
Max. Frequency at which valve will oscillate (Mc/s)	250	
CAPACITANCES (pF)		
Cag	3.65	
Cge	4.9	
Cae	1.35	

Pin	Electrode
1	No connection
2	Heater
3	Pin omitted
4	No connection
5	No connection
6	Pin omitted
7	Heater
8	Cathode
TC1	Grid
TC2	Anode

Blank pins may be used in positions 3 and 6 if a manufacturer desires.

TOP CAPS

See K1001/AI/D5.2

DIMENSIONS

See drawing on page 3.

NOTES

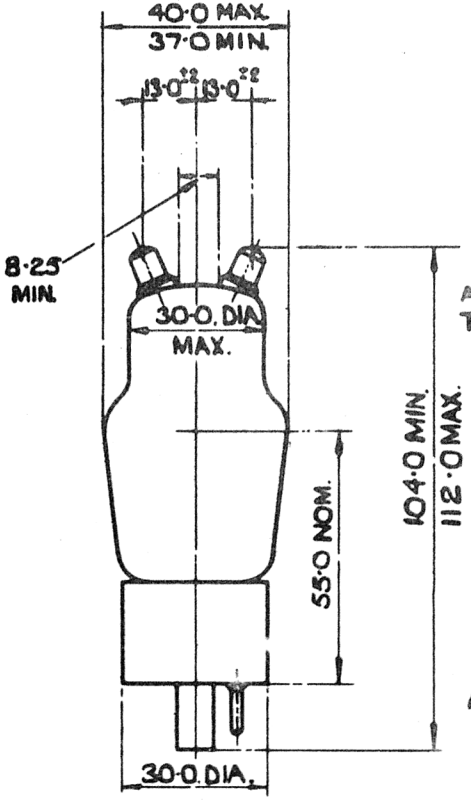
A:- At Vh = 6.3, Va = 100, Vg1 = -3.

B:- The valve has been designed for use under pulse conditions with anode modulation and Vh = 6.3 ±4%, when the above ratings apply. When used under conditions of grid modulation the maximum anode voltage should not exceed 500V.D.C.

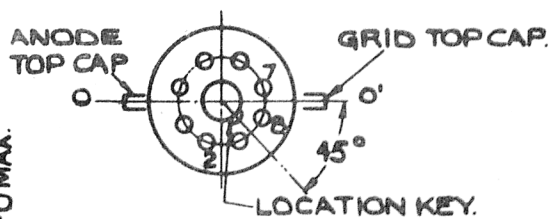
To be performed in addition to those applicable in K1001

	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)			
	TC2	TC1	1,2,4,5,7,8,9,10.	Cag	3.3	4.0	6 per week
	TC2	1,2,4,5,7,8,9,10	TC1	Cae	1.1	1.6	
	TC1	1,2,4,5,7,8,9,10	TC2	Cge	4.3	5.5	
b	Vh	Va	Vg				
	6.3	0	0	Ih (A)	0.72	0.88	100% or S
c	6.3	100	-3	Ia (mA)	17.5	32.5	100%
d	6.3	100	-3	gm (mA/V)	5.0	8.4	100%
		Peak grid swing ±0.5V. max.					
e	6.3	100	-3	Reverse Ig (μA)	-	2.0	100%
f	Valve to be tested in circuit shown on page 3 (or similar circuit to be approved by D.C.D.)			Peak Ia (A)	1.5	-	100%

CV 63



CENTRES OF TOP CAPS MUST NOT DEVIATE FROM LINE O-O' MORE THAN 2 mm.



VIEW OF UNDERSIDE OF BASE

ALL DIMENSIONS IN MILLIMETRES

TEST CIRCUIT.