

Specification: CV344/Issue 2 Dated 11.7.46. To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

<u>TYPE OF VALVE</u> - Triode <u>CATHODE</u> - Indirectly Heated <u>ENVELOPE</u> - Glass-Unmetallised <u>PROTOTYPE</u> - CV63 selected for high altitude working.		<u>MARKING</u> See K1001/4.	
		<u>BASE</u> I.O.	
<u>RATING</u>		Pin	Electrode
Heater Voltage (V)	6.3	1	No connection
Heater Current (A)	0.8	2	Heater
Max. Anode Voltage (kV)	2.5	3	Pin omitted
Max. Anode Dissipation (W)	2.5	4	No connection
Max. Anode Current (approx. mean peak) (mA)	500	5	No connection
Mutual Conductance (mA/V)	6.7	6	Pin omitted
Efficiency at 225 Mc/s	35%	7	Heater
" " 260 Mc/s	32%	8	Cathode
" " 290 Mc/s	17%	TC1	Grid
" " 300 Mc/s	12%	TC2	Anode
Max. Frequency at which valve will oscillate (Mc/s)	250	Blank pins may be used in positions 3 and 6 if a manufacturer desires.	
<u>CAPACITANCES (pf)</u>		<u>PLUG TOP CAPS</u> See K1001/AI/D5.2.	
Cag	3.65	<u>DIMENSIONS</u> See drg. on page 3.	
Cge	4.9		
Cae	1.35		

NOTES

- A:- At  $V_h = 6.3$ ,  $V_a = 100$ ,  $V_g = -3$ .
- B:- These ratings apply at a pressure of 187mm of mercury at 15°C.
- C:- The valve has been designed for use under pulse conditions, with anode modulation and  $I_h = 6.3 \pm 4\%$ , 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		No. Tested
					Min.	Max.	
a	See K1001/AIII			<u>CAPACITANCE</u>			6 per week
	Links to H.P.	Links to L.P.	Links to E.				
	TC2	TC1	1,2,4,5,7,8,9,10.				
	TC2	1,2,4,5,7,9,10.	TC1				
	TC1	1,2,4,5,7,8,9,10.	TC2	1. Cag (pF)	3.3	4.0	
	TC2	1,2,4,5,7,9,10.	TC1	2. Cas (pF)	1.1	1.6	
	TC1	1,2,4,5,7,8,9,10.	TC2	3. Cge (pF)	4.3	5.5	
b	Vh	Va	Vg	Ih (A)	0.72	0.88	100% or S
	6.3	0	0				
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 $\pm 0.5$ V. max.						
e	6.3	100	-3	Reverse Ig ( $\mu$ A)	-	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%

