

Specification DCD/CV1577/Issue 6 Dated 12/7/46 To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

—> Indicates a change

<u>TYPE OF VALVE</u> - Output Tetrode (Pentode characteristic) <u>CATHODE</u> - Indirectly heated <u>BULB</u> - Glass-metallised <u>PROTOTYPE</u> - KT 44	<u>MARKING</u> See K1001/4
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<u>RATING</u>	Note	<u>BASE</u> B7	
Heater Voltage (V)	4.0	A	Pin
Heater Current (A)	2.0		
Max. Anode Voltage (V)	400	B	Electrode
Max. Screen Voltage (V)	300		
Max. Anode Dissipation (W)	25		
Max. Screen Dissipation (W)	0.3		
Mutual Conductance (mA/V)	6.25		

<u>NOTES</u> A:- The anode voltage may rise to 1000 volts when the anode current falls to zero. B:- $V_a = 250, V_{g2} = 250, I_a = 85\text{mA}$.	<u>PLUG TOP CAP</u> See K1001/AI/D5.1.		
	<u>DIMENSIONS</u> See K1001/AI/D1.		
	Dimension	Min.	Max.
	A	mm	144
B	mm	57	

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To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
<p>Before the tests are made, the valve shall be run for a period of 5 minutes with $V_h = 4.0$, $V_a = V_{g2} = 250$, and $I_a = 85$ mA. The beam forming plates shall be connected to the cathode during this warming period and during the following tests.</p>								
	V_h	V_a	V_{g2}	I_a (mA)				
a	4.0	0	0	0	I_h (A)	1.8	2.2	100% or S
b	4.0	250	250	85	V_{g1} (V)	-11.5	-20.0	100%
c	4.0	250	250	85	I_{g2} (mA)	-	11.0	100% or S
d	4.0	250	250	85	Reverse I_{g1} (μA)	-	2.5	100%
e	4.0	250	250	85	g_m (mA/V)	5.0	7.5	100%
Peak grid swing $\pm 1.0V$. max.								
f	4.0	250	250	1.0	V_{g1} (V)	-	-50	100%
g	4.0	50V. applied between cathode and all other electrodes strapped.			I_c (mA)	300	-	100%