

Specification AD/CV240/Issue 4. Dated :- 28.5.48. To be read in conjunction with K1001, ignoring clause :- 5.8.	<table border="1"> <tr> <td data-bbox="598 280 764 287"> <u>Specn.</u> Unclass </td> <td data-bbox="764 280 1019 287"> <u>SECURITY</u> <u>Valve.</u> </td> </tr> <tr> <td data-bbox="598 287 764 294"> Unclass </td> <td data-bbox="764 287 1019 294"> Unclassified </td> </tr> </table>	<u>Specn.</u> Unclass	<u>SECURITY</u> <u>Valve.</u>	Unclass	Unclassified
<u>Specn.</u> Unclass	<u>SECURITY</u> <u>Valve.</u>				
Unclass	Unclassified				

<u>TYPE OF VALVE:-</u> Triode with air cooled anode <u>CATHODE:-</u> Indirectly heated, oxide coated <u>ENVELOPE:-</u> Metal - Glass <u>PROTOTYPE:-</u> E1496			<u>MARKING</u> See K1001/4.	
<u>RATING</u>			<u>DIMENSIONS AND CONNECTIONS</u>	
Heater Voltage	(V)	6.0	Note	See drawing page 3.
Heater Current	(A)	17.0		
Max. peak anode voltage	(kV)	15.0	A	See drawing page 3.
Max. anode dissipation	(kW)	1.0	B	
Amplification factor		35.0		
Min. peak emission	(A)	125.0		
<u>CAPACITANCES (pF.approx.)</u>			<u>PACKAGING</u>	
C _{ag}		16.0	See K1005.	
C _{gc}		18.0		
C _{ac}		4.5		

A. The valve is initially designed to operate as an oscillator at 80 - 90 Mc/s with $T_p = 15 \mu s$, PRF = 250 p/s.

B. Cooling. During operation the temperature of the anode and grid seals must be kept below $140^\circ C$. Forced air cooling with a flow of approximately 70 cub.ft. per minute for the anode and 6 cub.ft. per minute for the grid is necessary, the approximate pressure drops being of the order of $1\frac{1}{2}$ -inches and 1-inch respectively.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
	Vh (V)	Va (kV)	Ia (mA)	Vg (V)		Min.	Max.	
a	6.0				Ih (A)	15.3	18.7	100%
b	6.0	2	500		-Vg (V)	-13	-33	100%
c	6.0	2	500		-Ig (gas-current) (μ A)	-	50	100%
d	6.0	1.5	500		Change in -Vg from test 'b' (V)	11	18	100%
e	6.0				Peak emission (A)	125	-	100%
Peak emission to be measured with Va = Vg = 2 kV, Tp = 2 μ S, PRF 50 p/S, pulse shape - sinusoidal.								
→ → → f	Capacitances measured with valve cold on approved gear at 1 Kc/s. 1. Mc/s				Cac	3.0	6.0	5% (not less than 2 p.w.)
					Cag	15	17.5	
					Cgc	16	20	
g	<u>Functional test.</u> The valve to be run in an approved equipment under normal operating conditions (Va = 15 kV, Pulse length 15 μ S) for a period of not less than 5 minutes.							100%

V106
AMD.
No. 1.
DATED
AUGUST
1963.
HK.

