VALVE ELECTRONIC CVI256

ADMIRALTY SIGNAL ESTABLISHMENT

(NT99)

Specification AD/CV1256/Issue 4.	SECURITY		
Dated 16.6.47. To be read in conjunction with K1001,	Specification	<u>Valve</u>	
ignoring clauses: - 5.2; 5.8.	Restricted	Unclassified	

TYPE OF VALVE:- Triode, with air-cooled air-cooled continuous oxide continuous envelope:- Metal/Glass PROTOTYPE:- E1232.	anode heated ed.	3.	MARKING See K1001/4. DIMENSIONS AND CONNECTIONS See Fig. 1, Page 3.		
RATING		Note	GAUGE A.S.E. Gauge No. 334 is used to check the grid seal.		
Heater Voltage (V) Heater Current (A) Average Grid Voltage (V)	6.5 -31 12 150	B	See Fig. 2, page 4.		
Max. Peak Anode Voltage (kV) Max. Anode Dissipation (W) Wavelength of opera- tion (GAS)			PACKAGING See K1005.		
Amplification Factor	22	С			
CAPACITANCES (pF.)	8.0 11.0				
Cgc Cac	2.25				

NOTES

- A. During testing and operation, the air-cooled surface of the anode must be maintained below 140°C. A blast of air blown into the anode diffuser at a rate of at least 5 cu.ft./min., and into the grid seal or lead at the rate of about 1 cu.ft./min., is suggested.
- B. The valves, when operated in push-pull oscillator, modulated by a pulse length of 1 /uS at P.R.F. 500/sec., with Va not more than 12 kV shall withstand being switched on in two stages, viz. :- Half Va to full Va without conditioning other than that given by the manufacturers.
- C. At Va = 1 kV, Ia = 100 mA.

CV1256

TESTS

To be performed in addition to those applicable in K1001.

	Test	Condit	ions		Limits			
	Vh (V)	Va (V)	Ia (mA)	Test	Min.	Max.	No. Tested	Note
a	6.0	-	415	Ih (A)	5.85	7•15	100%	
р	6.0	1000	100	Vg (V)	-19	-43	100%	
G	6.0	1000	100	Reverse Ig (MA) (gas component)	-	10	100%	1
đ	6.0	1000	100	Reverse Ig (mA) (grid emission)		10	100%	1
е	6.0	500	100	i. Vg (V) Must be p tive			100%	
				ii. Change in Vg from value in test 'b'(V)	-17	- 29	100%	
f	6•0	Va = Vg = 1000 V.		Peak emission (Ia + Ig) (A)	40	***	100%	2
g	yalve cold		Capacitances (pF.)					
			i. Cag ii. Cgc iii. Cac	6 8•25 1•5	10 13•75 3•0	Type Ap- proval		

NOTES

- 1. The gas component of -Ig can be taken as the immediate decrease in -Ig when -Vg is rapidly increased to cut off Ia. The presence of unsaturated grid emission may render test 'c' impossible.
- 2. The peak emission is to be measured under pulse conditions with a pulse length of 2 \(\text{\subset} \) at P.R.F. 50/sec. The shape of the pulse is to be sinusoidal.





