## ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV240/Issue 4.	SECURITY			
Dated :- 28.5.48. To be read in conjunction with K1001.	Specn.	Valve,		
ignoring clause :- 5.8.	Restricted	Unclassified		

## - Indicates a change

TYPE OF VALVE:- Triode with cooled and coole	node heated ited	9	MARKING See K1001/4.		
RATING		Note	DIMENSIONS AND CONNECTIONS		
Heater Voltage (V) Heater Current (A) Max. peak anode voltage (kV)	6.0 17.0 15.0	A	See drawing page 3.		
Max. anode dissi- pation (kW)	1.0	B			
Amplification factor Min. peak emission (A)  CAPACITANCES (pf.approx.)	35.0 125.0		PACKAGING		
Cag Cgc Cac	16.0 18.0 4.5		See K1005.		

## NOTES

- A. The valve is initially designed to operate as an oscillator at 80 90 Mc/s with Tp = 15 \(\alpha \text{LS}\), PRF = 250 p/S.
- B. Cooling. During operation the temperature of the ancde and grid seals must be kept below 140°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 1½-inches and 1-inch respectively.

TESTS

To be performed in addition to those applicable in K1001.

ſ		Test Conditions						Limits		No.
		Vh (∀)	Va (kV)	Ia (mA)	Vg (V)	Test		Min.	Mex.	Tes ted
	а	6.0				Ih	(A)	15.3	18.7	100%
Ī	b	6.0	2	500		<b>-v</b> g	(V)	<b>-1</b> 3	-33	100%
	С	6.0	2	500		-Ig (gas- current)	(Aug)	. <b>-</b>	<b>5</b> 0	100%
	đ	6.0	1.5	500		Change in from test		11	18	100%
	е	6.0				Peak emiss	ion (A)	125	-	100%
		Peak emission to be measured with  Va = Vg = 2 kV, Tp = \frac{7}{2}US, PRF 50 p/S,  pulse shape - sinusoidal.								
ſ	f	Capacitances measured with valve cold on approved gear at 1 kc/s.			Cac		3.0	6.0	5%	
					Cag		15	17.5	(not less	
					Cgc		16	20	than 2 p.w.)	
	g	Functional test. The valve to be run in an approved equipment under normal operating conditions (Va = 15 kV, Pulse length 15 \( \mu S \)) for a period of not less than 5 minutes.								100%

