VALVE ELECTRONIC CV55

MARKING

ADMIRALTY SIGNAL ESTABLISHMENT

TYPE OF VALVE: - Air-cooled triode

Specification AD/CV55/Issue 4.

Dated 13.11.46.

To be read in conjunction with K1001.

SECURITY

Specm.

Restricted Unclassified

oscillat CATHODE:- Indirectly ENVELOPE:- Metal - g PROTOTYPE:- E1190.	See K1001/4. Additional Marking Serial No See Note A.	
Heater Voltage Heater Current Max. Anode Dissipation Amplification Factor Min. Operating Wavelength Continuous output power at 50 cm. per pair. CAPACITANCES (pF) Cag Cgc Cac	50 15 50 50	See Fig. 1.
	WOMES	

NOTES

- A. Valves and cartons are to be marked with two figures (e.g. 10/150) the first figure giving the peak emission in amps and the second Ia (mA) at Va = 100 V, Vg = 0.
- B. The filament volts should be as little above 6.3 V as possible.
- C. The temperature of the anode and grid seals must be kept below 140°C. Forced-air-cooling is necessary, a flow of approx. 4 cu. ft./min. being recommended. The pressure drop is of the order of 1.5" of water but may be lower, depending on the design of the system.
- d. Under sustained oscillation conditions Va = 500 V.

TESTS

To be performed in addition to those applicable in K1001.

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	Vh (V)	Va. (V)	∇g (V)	Ia (mA)	Test		Min.	Max.	Tested	Note	
a	7.0				Ih		(A)	2.4	3. 0	100%	
Ъ	7.0	500		100	V g		(v)	-12	-30	100%	
С	7.0	Sandard Street, or other Persons		100	i.	se Ig Gas	(AuA)	1	10	100%	1
					ii.	Grid emissic		1	100	100%	
đ	7.0	300		100	i.	Vg	(V)	Must not be positive		100%	
					ii.	Vg change f	rom (V)	7	20	100%	
е	7.0	500	500		Ie pe	ak	(A)	10		100%	2
f					Capac i. ii. iii.	itances Cag Cgc Cac	(pF)	2.1 5.1 0.5		Type ap- proval Test.	

NOTES

- 1. Ig (gas) is measured as the immediate decrease in reverse Ig when -Vg is rapidly increased to cut off Ia. Should the presence of unsaturated grid emission make this measurement in test 'c(i)' impossible, the test may be considered fulfilled if no trace of gas is evident in test 'e'.
- 2. Ie measured under pulse conditions, with Tp = 2/µuS, PRF 50 per sec., the pulse shape sinusoidal.

CV55/4/ii.

±4007

IN MMS, UNLESS OTHERWISE STATED

CV55/4/111