ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV. 2110 ISSUE 3 DATED 10. 2.54

ALENDMENT NO. 1

Page 1 Near middle of page at right-hand side, under heading "TOP CAP",

<u>Amend</u> "K1001/AI/D5.1" to "K1001/AI/D5.9"

Immediately beneath under column heading "Dimension"

 $\frac{\text{Amend}}{\text{and}} \quad \text{"D(mm)" to "A(mm)"} \\ \text{"L(mm)" to "B(mm)"}$

May, 1960

T.V.C. for A.S.W.E.

N. 17179

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2110 Issue 3.	SECURITY			
Dated 10.2.54.	Specification Valve			
To be read in conjunction with K1001.	Unclassified Unclassified			

Indicates a change. MARKING TYPE OF VALVE: - Gas Modulator See K1001/4. Hydrogen Thyratron. CATHODE: -Indirectly Heated. Additional Marking:-Serial No. Glass. ENVELOPE: -BASE BT83. PROTOTYPE:-BLD CONNECTIONS RATING Electrode Pin Note Grid **(V)** Heater Voltage 6.3 1 2 & 4 Heater/Cathode +0.3 **T1.**5 (A) Heater Current Approx. Heater TC (mins) Anode Min. Heating Time TOP CAP Max. Peak Anode Voltage See K1001/AI/D5.1. (Forward) (kV) Dimension Min. Max. Peak Anode Voltage (kV) 16.7 (Inverse) 2 D (man) 15.8 200 L (mm) 12 Max. Peak Anode Current (A) A,B. DIVERSIONS Max. Mean Anode Current (mA) 65 A See K1001/AI/D1. Max. Rate of Rise of Anode (8u/A) 1500 Dimension Min. Max. Current 200 Min. Trigger Volts (V) 250 C A (mm) B (mm) 68 (pps) 2500 A,B. Max. Pulse Rep. Freq.

NOTES

- A. These ratings are for operation in a modulator with a pulse length not exceeding 2 usec.
- B. The product of peak anode current and pulse repetition freq. should not exceed 100,000 A/sec. For long life conditions the peak anode current should be a fraction of the rated max.
- C. The trigger pulse should be at least 3 µs long at the 250 V level and have a time of rise not less than ½ µsec. The time of rise may be reduced if higher trigger voltages are used. The impedance of the driving circuit should not exceed 2000 ohms and the grid/cathode d.c. resistance should not exceed 5000 ohms.

Z.5500.R.

CV2110/3/1.



TRSTS

To be performed in addition to those applicable in K1001.

Γ	Test Conditions		tions		Limits		No.	
	Vh (V)	Va (kV)	V g (V)	Test	Min.	Max.	Tested	Note
a	6.30	ı	•	Th (A)	9.5	12	100%	
Ъ	6.0	8	0	Satisfactory operation in an approved line dis- charge modulator at 8 kV (min) hold off voltage passing pulses of 45 A peak of 1 µs duration, 1500 pps. Grid striking voltage (V) Anode delay time (µsec) Duraction of test (mins)	40 -	200 •2 3	100%	1
c	6.6	8	0	As test 'b' except Duration of test (mins)	10	•	100%	

NOTES

- 1. The valve shall operate satisfactorily at full voltage within 1 min. after application of anode voltage (and after 5 mins. cathode preheating).
- The anode delay time is the time interval between the striking of the grid and the build-up of anode current.

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