ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

RATING

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

TYPE OF VALVE: - Gas Modulator
Hydrogen Thyratron. See K1001/4.

6.3 0.3<u>+</u>0.5 11.5

2

200

1500

250

2500 A,B.

Indirectly Heated.

(A)

(kV)

(kV)

(A/US)

(pps)

(V)

(mins)

ENVELOPE:- Glass.

PROTOTYPE:- BT83.

Heater Current Approx.

Max. Peak Anode Voltage

Max. Peak Anode Voltage

Max. Peak Anode Current (A)

Max. Mean Anode Current (mA)
Max. Rate of Rise of Anode

Heater Voltage

Min. Heating Time

Min. Trigger Volts

Max. Pulse Rep. Freq.

(Forward)

(Inverse)

Current

CATHODE: -

	Additional Marking:-						
	Serial No						
	BASE						
	B4D						
	CONNECTIONS						
lote	Pin Electrode						
	1	1 Grid					
	2 & 4	Heater/Cathode					
	3	Heater					
	TC	Anode					
	TOP CAP						
A	See K1001/AI/D5.4.						
	Dimen	sion	Min.	Max.			
A	a D (m	n)	15.8	16.7			
,B.	3 1 (m	n)	12	-			
A	DIMENSIONS						
	See K1001/AI/D1.						
A	Dimen	sion	Min.	Max.			

(mm

B (mm)

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.

200

68

TESTS

To be performed in addition to those applicable in K1001.

	Test	Condi	tions		Limits		No.	
	Vh (V)	Va (kV)	∨g (∨)	Test	Min.	Max.	Tested	Note
a.	6.30		-	Ih (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 us duration, 1500 pps. Grid striking voltage (V) Anode delay time (usec) Duraction of test (mins)	40 -	200 •2 3	100%	1
С	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.

ELECTRONIC VALVE SPECIFICATIONS

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

MENDMENT NO. 1

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

Amend "K1001/AI/D5.1" to "K1001/AI/D5.9"

Immediately beneath under column heading "Dimension"

Amend "D(mm)" to "A(mm)" and "L(mm)" to "B(mm)"

May, 1960

N. 17179

Ezrokiopy usered in Solay? JAAS

T.V.C. for

A. S. W. E.