Specification MOS(A)/CV2318, Issue 2, Dated 24. 6. 54 Amendment 'A'

Page 1 Under heading TOP CAP

Amend K1001 reference to read See K1001/AI/D5.1

January 1955. Z.8323.R.

T.V.C. Office, for R.R.E.

Specification CV-2318, Issue 2, Dated 24.6.54.

Amendment 'B'

Page 1 under heading DIMENSIONS

Add:- Q min = 43.5.

T.V.C. Office

for R.R.E.

N49

ELECTRONIC VALVE SPECIFICATIONS SPECIFICATION MOS(A)/CV2318 ISSUE 2 DATED 24.6.54

AMENDMENT 'C'

ge 1, CONNECTIONS:-

Add "see Note E"

Amend pin schedule as under:-

<u> Pin</u>	Electrode
1 2 3	Heater Internally connected to cathode (Internally connected together
+ 5	Internally connected to cathode
7	Internally connected together
8 9	Cathode He ater•

P.T.O.

PAGE 2

Page 1, RATING:-

Amend Max. Peak Inverse Voltage rating of 16 in both cases to 14.25 (Page 1, NOTES:-

Add Note E as follows: -

E. To ensure that all pins and metal parts of the valve and base adjacent the cathode are at the same potential, particularly under transient conditions, valve holder tags 4,5,6,9, the spigot and support plate should be connected to 8; tag 1 should be connected by means of a capacitor of sufficient size to 8. No connections should be made to the remainder of the tags.

Page 2, In Column headed Test Conditions:-

Test d, Input Voltage: Delete 6.0 kV RMS, substitute 5.0 kV RMS.

January, 1960

R.R.E.

N.12464/D

SPECIFICATION MOS/A/CV2318

ISSUE 2 DATED 24.6.54

AMENDMENT 'D'

NOTES: -

Note 3 as follows:-

The requirements of K1001/5.3 shall be waived and instead the following shall apply:-

The heater-cathode leakage shall be measured with a heater voltage of 6.3 volts and with the heater negative to the cathode. A voltage of not less than 90 volts shall be applied through a limiting resistance not exceeding 1.5 megohms and the leakage current shall not exceed 40 micro-amperes.

mber, 1960 55/D R.R.E.

CV2318

CV2318/2/1

Specification MOS(A)/CV2318	SECUR	<u>I TY</u>		
Issue 2 Dated 24. 6.54 To be read in conjunction with K1001		Specification UNCLASSIFUED	Volve UNCLASSIFIED	
	- Indicate	s a change		
TYPE OF VALVE - High Vacuum, High Voltag	LIARKING			
CATHOR - Indirectly-heated	Soc K1001/4			
ENVELOFE - Glass - Unmetallised PROTOTYPE - VX3193				
RATING	Note	В	ASE	
Rectifier Rating		- В	9G	
Heater Voltage (V) Heater Current (approx.) (A) Max. DC Anode Current (MA)	6.3 1.6 100 A	<u>CONN</u> ≞C	L'TONS	
Max. Peak Anode Current (LA) Max. Surge Anode Current (A) Max. Peak Inverse Voltage with	600 A 2.0 A 16.0 A 4000 B 7.5 C 14 C,D 10	1 Heater 2 Intern 3 Intern 4 Intern 5 Intern 6 Intern	ally connected e	
		MOUNTING An		
A. Absolute maximum value. B. Cathode positive to heater C. Tp = 1/usec; FRF = 1000 pps. D. Max. duration of fault = 2 seconds.	NOTES	uency of faults =	. 1 per 5	

Z.6610.R.

F

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions			ns	Test	L	imits Max	No. Tested	Note
		Vh (V)	Ia (mA)	۷a (۷)					
-	а	6.3	- `	-	Heater Current (A)	1.45	1.75	100%	·
• •	ď	6.3	300	_	Anode Voltage (V)	-	130	100%	
	ć	6.3	-	1500	Anode Current (A)	8.0	-	100%	1
	đ	6. 3	The valve shoperated in wave rectify circuit when Input voltage 6.0 kV RMS Frequency = 0utput curre = 100mA DC; Reservoir cc = 0.25 µF; Load resiste = 60k (appreffective expresistance = 0.00 control of the control of	a half- ring re: ge ; 50c/s; ent endenser er ex.) cternal	Load Test Run for 1 minute and reject for persistent flash-over or softness.			100%	2

MOT S

- 1. Tp = 2 μ secs; PRF = 50 c/s.
- 2. The valve shall be pre-heated for 60 secs. at Vh = 6.3 volts before the application of HT voltage.

CV2318/2/2