ELECTRIC VALVE SPECIFICATIONS

SPECIFICATION CV2419 ISSUE 2 DATED 1st DECEMBER 1958 AMENDMENT NO.1

Page 1. Under heading RATING Delete "Max" in Max. Fourth Anode Voltage"

Delete 4,5kv and substitute "Note B".

At bottom of page, insert NOTE B as follows:
B. The voltage applied to a4 must be less than the voltage applied to a5 but a secondary emission effect may be observed if this difference in voltage exceeds 1.5kv.

Pages 2 and 3 Under Column headed "Test Conditions"

Amend Va4 voltage in each case to read 5kv.

(this applies to test clauses b,c,d,e,f,h,j,k,l,m and n)

N-16336

Page 4

Page 4 Outline Drawing near top left hand corner:-

Interchange P.D.A. side contact references to read a5 nearest to screenface and a4 nearest to tube base.

Royal Aircraft Establishment.

February 1960

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS/CV2419 ISSUE 2 DATED 1st DECEMBER, 1958

AMENDMENT NO. 2

Page 2 Clause b Heater Current Test

Amend figure under Val4
from 5kV (as in Amdt. No. 1)
to 0 (as originally)

April, 1960 N.16861

T. V. C. for R. A. E.

SPECIFICATION	M.O.S./CV.2419	SECUR	ITY
Issue 2	Dated 1.12.58	SPECIFICATION	EVLAY
To be read in co	onjunction with K.1001, BS.448 and BS.1409.	Unclassified	Unclassified

Indicates a change

						
			MARKING			
Electrostatic.						
Electrostatic. Glass, internally coated with conductive coating.						
		<u>connections</u>				
		Pin	Electro	ode		
4.0 1.0 7.0 4.5 3.0	NOTE	1 2 3 4 5 6 7 8 9 10 11 12 Side Contacts	Int.Coating Y2 X2 Anode 1 X1 Y1 Omitted Anode 4	k 8 h h a2 a3+m y2 x2 x1 x1 NP a4 a5		
6.5 4.0 2.5 175 2.0 0.095 0.095		See Dr	BS.448/CT7 DIMENSIONS awing on page			
	6.5 4.0 1.0 7.0 4.5 3.0 6.5 4.0 2.5 175 2.0 0.095	6.5 4.0 1.0 7.0 4.5 3.0 6.5 4.5 3.0	Pin Pin NOTE 1 4.0 1.0 7.0 4.5 3.0 7.0 4.5 3.0 7.0 6 2.5 1.75 2.0 0.095 0.095	See K.1001/4		

NOTES

A. The tube shall be adequately free from microphony see K.1001/11.5.

OV.2419/2/1

Z.18258.

CV2419

To be performed in addition to those applicable in K.1001.

→ Except where otherwise stated, symmetrical deflecting voltages shall be applied to the Y plates and asymmetrical deflecting voltages to the X plates.

Γ	Test Conditions								Test			Limits		
L	1					multions			1000		Min.	Max.	Tested	
a	1	See K.1001/AIII							Capacitances (pF) Each X or Y plate to all other electrodes One X plate to one Y plate Orid to all other electrodes		-	15 4.0 . 21	% (5)	
	t	Vh	Va5 (kV)	Val ₄ (kV)	Va3 (kV)	Va2 (V)	Vat (kV)	¥g (∀)						
Ь	,	4.0	0	0	0	0	0	0	Heater Current	(A)	0.9	1.1	% (10)	
	,	4.0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	Adjust to cut- off	Negative Vg.	(V)	-	120	100%	
8			st Vg			As in C ght outpu a C2 fil		-	(1) Negative Vg (2) Change in value of Vg from test 'c' (3) Within the range of Vg from cut-off to specified light output, the beam current shall increase continuously	(V)	1.0	- 20 -	100% 100% 100%	
		4.0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	-						
е		DEFLECTION With a 1G kc/s line of length 55mm in the X and Y directions successively, the line width is to be measured at the centre of the trace.						ely, the	(i) Line width	(mm)	-	1.0	100%	
		GRID The grid shall be pulsed positively from cut-cff with amplitude equal to the value obtained in test (d2), the nominal values of pulse duration and recurrence being 100/sec. and 100c/s respectively.					to the	value values of	(2) Va2	(₹)	-	250	5% (10)	
f		4.0	6.5	4.0	2.5	Any con- venient value	2.0	-120	Grid Insulation (1) Leakage Current	(μ Α)	-	24	100%	
		Recommended alternative methods:- See K.1001/5A.3.2 Resistor = 5 megohms							(2) Increase in voltmeter reading		-	100%	100%	
Ī		4.0	0	0	0	0	0	0						
8	B	See K.1001/51-3.3 100Y applied between heater and cathode, the former being negative.						ixie, the	<pre>!!eater-Cathode Insulation Leakage Current</pre>	(μA)	-	200	100%	
ì	n	4.0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	Any con- venient value	Deflection Sensitivities (1) X-Plate (2) Y-Plate	(mm/V)	187 Va3 200 Va3	238 Va3 250 Va3	5% (10)	
	1	4.0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	Any con- venient value	Deviation of Spot from Centre of Screen	(nen)	-	5.0	100%	

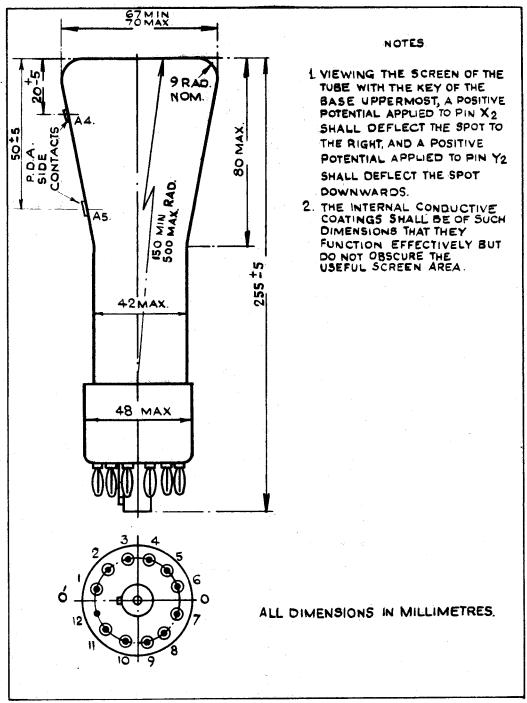
CV.2419/2/2

				Test Co	nditions			Test		Limits		
							Max.	No. Tested				
	νh	Va5 (kV)	(kV)	Va3 (kV)	Va2 (V)	Va1 (kV)	∀g (∀)					
k	4-0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	Any con- venient value	Useful Screen Area				
	Deflection to cover stated circle centred on centre of screen.					cle ce	n tred on	Diameter (am	50	-	100%	
1	4.0	6•5	4.0	2.5	Adjust for op- timum focus	2.0	Any con- venient value	Angle between I and Y exis of deflection (Note 2)	890	910	100%	
n	4.0	6.5	4.0	2.5	Adjust for op- timum focus	2.0	Any con- venient value	(1) Orientation of Y axis of deflection relative to 00' on drawing (2) Orientation of diameter line through snap terminals relative to Y axis.	-	±10°	100% 100%	
n	Adju 1.		t Lamb		Adjust for op- timum focus ster brig then viewe			Afterglow Time taken for brightness to decay to 0.55% of initial value. secs (Note 1)	12	-	100%	

NOTE

- 1. This test may be performed using Test Set Type 331 fitted with an N4 filter. The specified limit applies.
- 2. To be measured with symmetrical deflection applied to both I and Y plates.

CV.2419/2/3



CN 5413/5/4