# CV1526

# MINISTRY OF SUPPLY - D.L.R.D. (A)/R.A.E.

	Specification MOSA/CV.1526 Issue 4 Dated 21.7.53 To be read in conjunction with K.1001	SECU Specification UNCLASSIFIED	
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VALVE ELECTRONIC

TYPE OF VALVE - Cathode Ray Tube	MARKING See K.1001/4.			
BULB - Internally coate conductive coats	BASE			
SCREEN - GGN35 PROTOTYPE - VCR526	12 pin spigot.			
RATING	RATING			
		Note	Pin	Electrode
Heater Voltage Heater Current Max. Fourth Anode Voltage Max. Third Anode Voltage  Typical Operating Conditions Fourth Anode Voltage Third Anode Voltage Second Anode Voltage Working Beam Current Peak Peak Cathode Current X-plate Sensitivity Mmm/V Y-plate Sensitivity Mmm/V	2.5 1.3 100 200 1000 .215 .215	A	Sı	C G H H H A2 Pin omitted Y2 Y2 A1, A3 and conductive coating Y1 Pin omitted A4.  DE CONTACT hap Terminal DESIONS Tawing on page 4.

#### NOTES

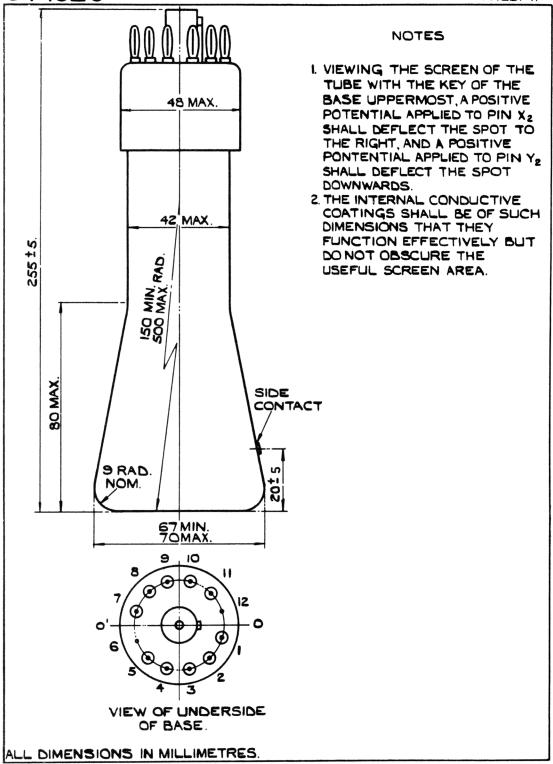
- A. The valve shall be capable of operating with first and third anode voltages of 1500 V and fourth anode voltage of 3.0 kV at a pressure equivalent to 5.77" of mercury at 15°C.
- B. The tube shall be of the post deflector accelerated type and of a design such that a change of +10% in the Va2 voltage shall not produce an appreciable change in the cut-off voltage.
- C. The tube shall be adequately free from microphony.

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

		Tes	st Cond	litions			Limits			1
	Vh	Va4 (kV)	Va1 Va3 (kV)	V <b>a</b> 2	Vg	Test	Min.	Max.	No. Tested	
						voltages shall be applied to the X plates.	ed to ti	ne Y pla	ates	
a		See	K.1001	/5A.13.		CAPACITANCES (pF)  1. Each X or Y plate to all other electrodes. 2. One X to one Y plate. 3. Grid to all other electrodes.	-	13 21- 4 13 21	5% (5)	Amilt
ъ	4.0	0	0	0	0	Ih (A	0.88.9	1.1	5%(10)	Amdl
С	4.0	2.5	1.3	Ad justed for opti- mum focus	Adjust to cut - off	Vg (V) Value to be noted	-	105	100%	
đ		of 0.30		ditto ve a light on a contract of the contract		(1) Vg (V) (2) Change in value of Vg from test "c". (V)		<b>-</b> 45	100%	
e	time line and l The l at th GRID posit ampli ohtai nomin tion	base of length of directions of the grant of	of 10 len of 55 ctions idth to the of grid wing from one equal to the test lues of ecurrer	a sine was color of mm in the succession of the trace the trace till be pure to the variable of the variable o	and a the X avely. Sured the control of the control	(1) Line width (mm (2) Va.2 (V		1.2 200 (30	10% 5%(10)	Amalt
f	See F	(.1001/ stor =	1.3 1 metho /5A.3.2 5 Mego	2.	<b>-1</b> 05	GRID INSULATION  1. Leakage Current (uA)  2. Increase in volt- meter reading.	- -	21 100%	100% 100%	

П		Tes	st Cond	litions	The state of the s		Limits		
	Vh	Ve4	Va3 Va1 (kV)	<b>Va</b> 2	۷g	Test	Min.	Max.	No. Tested
g	4.0	-	-	Any con- veni- ent value	-	HEATER CATHODE INSULATION Leakage Current (AUA)	-	200	100%
	See K.1001/5A.3.3. A voltage of 100 V shall be applied between heater and cathode.								
h	4.0	2.5	1.3	ditto	Any con- veni- ent value	DEFLECTION SENSITIVITIES  1. X-plate (mm/V) 2. Y-plate (mm/V)	0.17 0.17	0.26 0.26	5% (10)
j	4.0	2.5	1.3	ditto	ditto	Deviation of spot from centre of screen (mm)	-	7.0	100%
k	Deflection to cover stated circle centred on centre of screen.				ed.	USEFUL SCREEN AREA Diameter (mm)	55	-	100%
1	4.0	2.5	1.3	ditto	ditto	Angle between X and Y axis of deflection	85°	95°	100%
20.	4.0	2.5	1.3	ditto	ditto	<ol> <li>Orientation of Y axis of deflection relative to 00' on drawing.</li> <li>Orientation of diameter line through snap terminal relative to Y axis.</li> </ol>	-	<u>+</u> 10°	100%
n	Defleraste: area. focus:	cting r cove: The si sed su not b	voltagering the pot she ch that	all be de	ve a l screen e- te lines	2. The variation of			100%



# ELECTRONIC VALVE SPECIFICATIONS

# SPECIFICATION CV1526

## ISSUE 4. DATED 21.7.53

### AMENDMENT NO.1

#### Test Clause "a" CAPACITANCES (pF) Page 2.

- Amend the Limits Max. of 21pF for "Each X or Y plate to all other electrodes" to read"13pF".
- 2. Amend the Limits Max. of 13pF for "Grid to all other electrodes" to read "21pF".

Royal Aircraft Establishment

March 1960 N.16437

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Min 9860

# ELECTRONIC VALVE STECIFICATIONS

# STECIFICATION MOSA/CV.1526 ISSUE NO.4 DATED 21.7.53

# AMENDMENT NO.2

#### Page 2

Test Clause (b) Ih.

In the column headed "Limits, Min." delete: "0.9" and substitute: "0.85".

Test Clause (e)(2) Va2.

In the column headed "Limits Max" delete "200" and substitute in Min.column "50" and the Max. Column "130".

November, 1963.

NP.152578.

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

