Amendment No. 1 to Specification CV2897 - Issue 1 - dated 30.11.53

Page 2

Test Conditions

Delete Clauses "h" and "j"

Insert new Clause "h" as follows:-

	· <u> </u>	Limits		No.	Note
Test Conditions	Test	Min.	læx.	Tested	11000
Adjust Va, for any Convenient brightness	Blemishes (Including bubbles, dead spots and colour spots).			100%	4
with a defocussed raster to cover the useful	Above 1 mm diameter	N	one		
screen area.	0.5-1 mm diameter		4		
	0.2-0.5 mm diameter		10		
	ignore all blemishes below 0.2 mm dia. Min separation of any two blemishes 20 mm.			·	

Page 3

Notes

Add note 4 as follows: -

NOTE 4 If two or more blemishes are separated by a distance not greater than the maximum dimension of the largest blemish in the Group, then the Group of blemishes shall be considered as one blemish of dimension equal to the maximum overall dimension of the Group.

T. V. C.

for R. R. E.

Z.16381.R.

January, 1958.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS/CV2897 Issue 1 dated 30.11.53

AMENDMENT No. 2.

Page 2. Amend heater current Minimum Limit from 0.9 to 0.8 Test b

October, 1959.

R.R.E. Malvern.

MINISTRY OF SUPPLY - DLRD(A)/RRE

VALVE ELECTRONIC CV2897

Specification HOS(A)/CV2897 Issue 1 Dated 30.11.53
To be read in conjunction with K1001. Specification Valve UNCLASS IF IED UNCLASS IF IED

TYPE OF VALVE - Cathode Ray Tube	MARKING							
TYPE OF DEFLECTION - Magnetic	See K1001/4.							
TTPE OF FOCUS - Hagnetic SCREEN - BB1 (See Note A) PROTOTTPE - C2110/12	BASE International Octal Metal shell with phenolic insert. See Drawing Note V.							
RATINO					CONNECTIONS			
, <u>1555.7445.</u>				Pin	Electrode			
Heater Voltage Heater Current Max. Final Anode Voltage Max. Heater-Cathode Voltage	(V) (A) (kV) (V)	4.0 1.0 18 265	Note	1 2 3 4 5 6 7 8 80	No connection Heater Pin omitted Pin omitted Grid Pin omitted Heater Cathode Anode			
				Side CONTACT See K1001/A1/D5.1.				
CAPACITANCES (pF) Cc - all (max.) Cg - all (max.)		8.0 12.0		<u>DIMENSIONS</u> See Drawing on Page 4.				
NOTE								

- P.16 (RCA Powder No. 33-C-640). A.
- Max. fault conditions. For normal operation the conditions specified in K1001/5A.3.3 В. shall apply.

CV2897/1/1

Z.6615.R.

TESTS To be performed in addition to those applicable in K1001

		est Co	nditions		Test		ni ts	No.	
	Vh (V)	Va (kV)	Vg (V)	Ib (AiA)			Max.	Tested	Note
•	See K1001/5A.13.				Capacitances (pF) Grid to all other electrodes Cathode to all other electrodes	6.0 6.0	14.0 10.0	6 per week	3
Þ	4.0	•	-	-	Ih (A)	0.9	1.1	100%	
С	4.0	15.0	Adjust for cut-off	•	Vg (V)	5 5	-1 05	100%	
đ	optin	um foc	Adjust fields to ussed clo ins. x 3.	se	(i) Change in Vg from value found in Test (c) (V) (ii) Line Width (mm) (iii) Focus Coil Current (mA) (iv) Within the range of Vg from cut-off to that for Ib = 100 µA, the beam current shall increase continously.	-	40 0,2 42	100%	1
8	4.0 15.0 -105 - Recommended method: See K1001/5A.3.2. Resistor = 10 Megohms.			s.	Grid Insulation (1) Leakage Current (MA) (11) Increase in voltmeter reading	-	100%	100%	
4	Defle	tated	Any convenient value field to circle ce of the sc	cover ntred on	Useful Screen Area Diameter (mm)	165		100%	
g	4.0 No fo	15.0	Near cut-off	sation.	Deviation of unfocussed spot from the centre of the screen (mm	-	5	100%	
h					Screen blemishes to be not worse than an agreed standard.	· _	•	100%	
1	No bubbles or blemishes in the glass face of the tube shall be greater than 0.04 in. dia., and the maximum number of bubbles and blemishes permissible shall be according to the following: With the screen divided into three zones, separated by concentric circles of 2 ins., 4 ins. and 6 ins. diameter, the inner zone bubble density may be up to 2 per sq. in. max., the middle zone 4 per sq. in. max., and outer zone 6 per sq. in. The periphery zone beyond the 6 ins. diameter may include 6 or nore per sq. in.							}	

CV2897/1/2

CV2897

	Test Conditions					Linits		No.	
	Vh (V)	Va (KV)	(V)	(ATV)	Test	Min.	Max.	Tested	Note
k	4-0	15•0	Adjust for cut-off	••	Cold Enission	-	•	100%	2

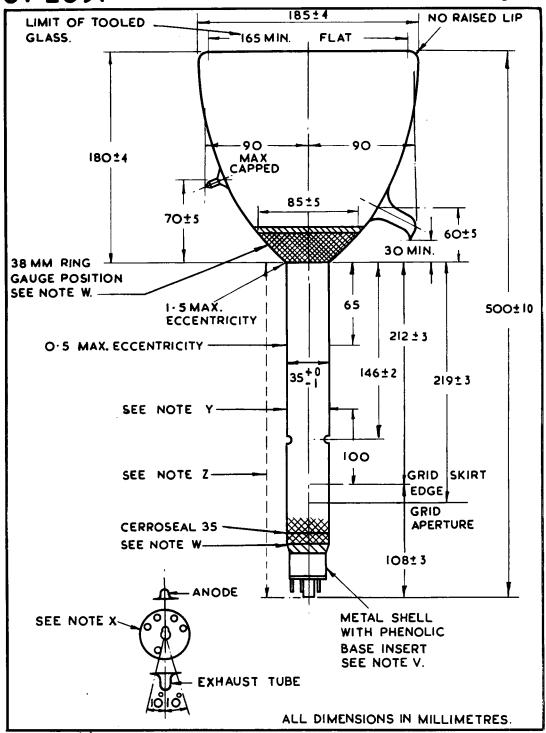
NOTES

- 1. The necessary focussing field shall be obtained using a focus coil to Marconi Drawing No. E/RAD/B9756, Assy. A, nounted so that the gap is towards the screen of the tube and at a distance of 130 mm from the 38 mm ring-gaugo position.
- 2. There shall be no spurious excitation of the screen resulting in visual or ultra-violet light output.
- 3. This test shall be performed after the application of the external Aquadag coating

DRAWING NOTES

- V. Maximum diameter of metal shall not exceed 34 mm. and a ring gauge 35.25 mm. max. internal diameter and of length 50 mm. shall slide freely over the base and neck when the shell is cemented to the neck.
- W. Neck to be coated with Acheson Dag No. 490 and two coats of Bakelite Varnish V130/1, having minimum overlap of 3 mm.
- X. Angle between plane through anode connection and axis of tube and plane through base spigot not to exceed 15°.
- The axis of the tube is defined as the extended axis of that section of the gun neck from the modulator edge 100 mm. towards 38 mm. ring gauge reference line.
- Z. Over this length straightness shall be sufficiently good for a gauge 37 mm. maximum internal diameter and of length 100 mm. to slide freely over neck and base.

CV2897/1/3



CV 2897/1/4