ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.2666

ISSUE 4 DATED 28.10.52

AMENDMENT NO.1

Page 3 Note 2

The sentence (in the middle of this note) "Angles to be within ± 5°" should be amended to read "± 5' (minutes)".

Royal Aircraft Establishment.

December, 1958. N.44548

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

VALVE ELECTRONIC CV2666

Specification MOSA./CV2666	SECURITY				
Issue 4 Dated 28.10.52	Specification	Valve			
To be read in conjunction with K.1001	UNCLASSIFIED	UNCLASSIFIED			

>	Indicates	a	change
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TYPE OF VALVE - R.F. Double Beam 1	MARKING					
CATHODE - Indirectly heated	See K.1001/4					
ENVELOPE - Glass, Unmetallise PROTOTYPE - 829B	eđ.		See D	BASE B7A Prawing on Page 4		
RATINGS		Note		CONNECTIONS		
Heater Voltage (V)	6.3	A	Pin	Electrode		
Heater Current Max. Anode Voltage Max. Grid Voltage Max. Grid Current Max. Screen Grid Voltage Max. Anode Dissipation Max. Screen Dissipation Mutual Conductance Anode Impedance Immer µ (g1 - g2)	2.25 750 -175 7.5 225 20 6.5 1.9 67 5.6	B C C C D D D	1 2 3 4 5 6 7 T.C.1 T.C.2	Heater Control Grid (b) Screen Grid Cathode, Beam Flates Heater, centre tap Control Grid (a) Heater Anode (a) Anode (b)		
Max. Frequency, full ratings (Mc/s.) Max. Frequency, half ratings (Mc/s.)	200 300		<u>DIMENSIONS</u> See Drawing on Page 4			
CAPACITANCES (pF)						
Cag Hax. Cge Nom. Cae Nom. Cg2c Max.	0.12 14.5 6.95 65	000				

notes

- A. Centre tapped 12.6V. heater.
- B. Forced air cooling required.
- C. Each section.
- D. Measured at Va = 300V. Vg2 = 250, Ia = 25 mA.

CV2666/4/1

CV2666 To be performed in addition to those applicable in K.1001

		Test Conditions					Test		Limits		No.	Wet-	
	_								Min.	Max.	Tested	Note	
		See K.1001/AIII Adaptor Type 43 Ref. 10H/13339.							·		/		
		Link:		L	inks to L.P.	1	ks to E.	Capacitances (pF)	-				
		T.C.1	1.0.1.				,4,5,7, 0, T.C.2.	Ca(a)gi(a)		-	0.12	T.A.	2.
		6 1,3,4,5,			2,8,9,10, T.C.1, T.C.2.		Cg1(a)e		12.8	16.2	6	_	
	a	T.C.1. 1,3,4,5,		2,6,8,9,10, T.C.2.		Ca(a)e		5.2	8.7	per Week			
		T.C.2. 2		2	1,3,4 8,9,1	,5,6,7, 0. T.C.1.	Ca(b)g1(b)		-	0.12	T.A.	2	
		2 1,3,4,5, 7.			6,8,9 T.C.1	,10, , T.C.2.	Cg1(b)e		12.8	16.2	6 per		
		T.C.2			1,3,4,5, 2,6,8,9,10, 7. T.C.1.			Ca(b)e		5.2	8.7	Week	
		Vh	v	a	Vg2	Vg1	Ia(mA)						
4	ъ	6.3 100 Volts applied to cathode and heater through a series resistor 100,000 ohms max.		series	H - C Leakage (Current	μ Δ)	-	175	100%				
	c	6.3		0	0	0	0	Ih	(A)	2.0	2.5	100% or S	
	a	6.3	4	00	225	-	50	Reverse 1g1 (μA)	-	-4.0	100%	1
I	0	6.3	2	50	175	11 -		1g2 (:	nA)	-	10.0	100% or S	1
	f	6.3	6.3 250 175 -11 -		Ia (:	nA)	38	82	100%	1			
	g	6.3	41	00	225	-	0.2	Vg1	(v)	-	-55	100%	
	h	6.3	gr	, ,				Emission () Current	mA)	250	-	100%	
	j	6.3 400 225 To be carried out at a frequency of 200 Me/s in a push pull circuit Ia = 250 mA; Ig1 = 10 - 15 mA; Ig2 = 35 mA(max.); Rg1 = 5000 - 1500 ohms.					Oscillation Test Output	(W)	45	-	100%		

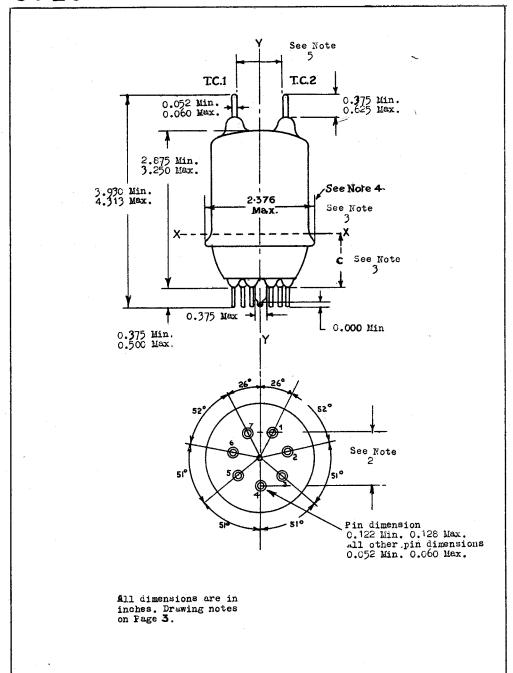
NOTES

- Test to be applied to each half of the valve, control grid of unit not under test to be connected to $-100\ V_{\star}$
- Cag to be measured with a metal shield 3/4" high and I.D. $2^3/8$ ".

CV2666/4/2

DRAWING NOTES

- The axis YY' is defined as the axis of the base pin gauge described in Note 2.
- 2. The valve base should be capable of entering to a distance of 0.375", a flat plate gauge having six holes 0.080" + 0.0005 and one hole 0.1450" + 0.0005", all arranged on a 1.000" + 0.0005 circle at specified angles on the outline. Angles to be within + 50. A hole 0.500" + 0.01" at the centre of the pin circle is also required. The axis YY' is defined by the centre of this hole.
- Dimension "C" is measured by inserting the tube in the base pin gauge described in Note 2, and then lowering over the valve envelope a gauge plate having a hole 2,063" 0.000 + 0.003" in diameter until the plate reats on the seal flange at position XX'. The centre line of the hole shall be coincident with the axis YY' within 0.150. With the gauge plate parallel to the top surface of the base pin gauge, the dimension "C" is measured between the bottom surface of the gauge plate and the top surface of the base pin gauge. This distance shall be 0.844 min. and 1.219 max.
- 4. Minimum diameter of the valve-seal flange will be such that a ring gauge having I.D. = 2.125" + 0.003" 0.000 and thickness of 0.125" + 0.010" will not pass the flange when tried at any angle.
- 5. The anode-leads shall be capable of entering a flat gauge plate of 0.375" min. thickness having two holes 0.120 ± 0.0005" in diameter arranged 0.424 ± 0.001 from a point coincident with the axis YY'. The axis of the holes shall be parallel to YY' and the plane of these axis shall be 90° ± 5° from the plane through YY' and Pin No. 4.



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