ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV788 ISSUE 4 DATED 23.3.53.

AMENDMENT No. 1

Page 4. View of Underside of Base

The top right hand quadrant quotes the base radius as 1.156 max.

Amend this dimension to read 1.150 max.

March, 1960. N.16396. Royal Aircraft Establishment

Specification MOSA/CV788 Issue 4 Dated 23.3.53 To be read in conjunction with excluding clause 5.3		SEC cification LASSIFIED	SURITY Valve UNCLASSIFIED						
Indicates a change									
TYPE OF VALVE - Double Tetrode CATHODE - Indirectly Hea ENVELOPE - Glass, urmetal PROTOTYPE - 832A	ted		<u>MARKING</u> See K1001/1 ₄						
RATING		Note	<u>BASE</u> See Drawing on Page 4						
Heater Voltage Heater Current	(V) (A)	12.6 0.8	A		CTIONS				
Max. Anode Voltage Max. Screen Grid Voltage	(V) (V) (mA) (mA) (V) (W) (W) (Mc/s)	750 250 90 6 -100 15 5 200	ВВ	Pin	Electrode				
Max. Anode Current Max. Control Grid Current Max. Control Grid Voltage Max. Anode Dissipation Max. Screen Grid Dissipation Max. Frequency (full rating)				1 2 3 4 5 6 7	H G1(b) G2(a), G2(HOT G1(a)	ъ)			
CAPACITANCES For Each Unit (pF)				Top Leads	A(a) A(b)				
Cga (max.) Cge Cae		.07 7.8 3.8			,	SIONS g on Page 4			

NOTES

- A. Centre Tapped Heater.
- B. Total, for both units.
- C. A by-pass condenser, connected between the screen grid pin and the cathodes, shall be incorporated in the structure, and shall be below the internal screen. The value of this condenser including the screen grid-cathode capacitance shall be not greater than 65pF.

TESTS

To be performed in addition to those applicable in K1001

Page 2

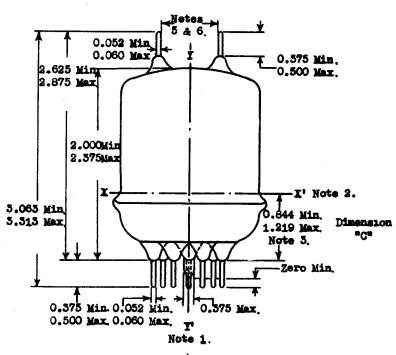
-	Test Conditions							Test		Limits		No. Tes te d	Note
										Min.	Max.		
	a		See K1001/AIII					Capacitano	es (pF)				
		Links H.P.	to I	Links L.P.	to		ks to E.						
		TC1		1,3,4 7	,5,	2,6	,8,9,10 TC2	Ca(a) - e		2.8	4.8	6	3
		TC2		1,3,4 7	,5,	2,6	,8,9,10 TC1	Ca(b) - e		2. 8	4.8	per	
		6		1,3,4 7	1,2 7,8		,9,10 1,TC2	Cg(a) - e		6.2	9.4	week	
j		2		1,3,4 7			,9,10 1,TC2	Cg(b) - e Ca(a) - g(a)		6.2	9.4		
>		TC1		6			,3,4,5, ,9,10 TC2			-	.07	·	
		TC2		2		1,3 7,8	,4,5,6, ,9,10 TC1	Ca(b) - g(b)		- .	.07		
		(A)	Va (V)	Vg2 (V)	Vg (V		Ia (mA)						
	ъ	12.6	0	0	0		0	Ih	(A)	0 .7 6	0.84	100% or S	
	٥	12.6	40 0	250	Adjust		19	Ig1	(uA)	0	-2	100%	1
ĺ	đ	12.6	250	1 35	-10		-	Ia	(mA)	18	42	100%	1
	е	12.6	250	135	-10		-	Ig2	(mA)	0.1	5. 5	100%	1
	f	11.0	400	Ad- just max. figm =250V	,		90	1. Power Output 2. Ig2	(W) (mA)	14 0	- 11.0	100%	2
		Ig1 = 2 - 6 mA; Rg = 8000 - 18000 ohms; Freq. = 200 Mc/s											
	g	12.6	25	25	25		-	Emission	(mA)	80	-	100%	1
	h	12.6 100 Volts applied to cathode and heater through a series resister. 100,000 ohms max.					H - C Leal age Current	c- (u &)	-	100	100%		
-								<u> </u>		لــــــــــــا			

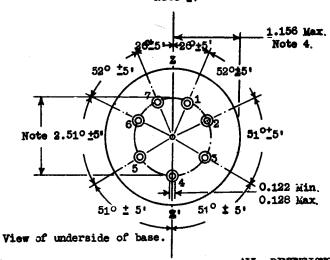
NOTES

- Each unit to be tested separately; control grid of unit not under test to be connected to -100v.
- Push-pull self oscillating circuit to be used. Test to be of Useful Power Output.
- 3. Measured with shield 3/4" high, $2^3/8$ " I.D.

DRAWING NOTES

- The axis Y Y' is defined as the axis of the base pin gauge described in Note 2.
- 2. The valve base shall be capable of entering to a distance of 0.375" a plate gauge having six holes 0.0800 ± 0.0005" and one hole 0.1450 ± 0.0005" arranged on a 1.000 ± 0.0005" circle at specified angles on the outline. A 0.500 ± 0.01" hole at the centre of the pin circle is also required. The axis Y Y' is defined as the centre of this hole.
- Dimension "C" is measured by inserting the valve in the base pin gauge described in Note 2, and then lowering a gauge plate having a hole 2.063 0.000 + 0.005" in diameter until the plate rests on the seal flange at position X X'. The centre line of the hole shall be coincident with the axis Y Y' 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.
- 4. The minimum diameter of the valve seal flange will be such that a ring gauge having an I.D. of 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 0.200 ± 0.0005" in diameter arranged 0.424 ± 0.001" from a point coincident with the axis Y Y'. The axes of these holes shall be parallel to Y Y' and the plane of these axes shall be 90° ± 5' from the plane through Y Y' and Pin No. 4.
- 6. 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 0.848 ± 0.001 " (centre to centre).





FOR NOTES

SEE PAGE 5

ALL DINGS ICKS

ARE IN INCHES