GENERAL POST OFFICE: E-IN-C (S)

Specification: G.P.O./CV.2324	SECURI	TY .
Dated: Issue 2 1st February 1960	Specification	Valve
To be read in conjunction with K 1001	Unclassified	Unclassified

indicates a change

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	TYPE OF VALVE: Air Blast cooled CATHODE: Directly heated. Tungsten filame ENVELOPE: Copper/glass. Ni Cobalt/alloy. PROTOTYPE: CR.176		MARKING See K 1001/4 Additional markings required (See Note B) Serial No Filament Volts 5.0		
Ī	RATING			NOTE	BASE See drawing, Page 3
A			V) 5.0 A) 64.0 7.5 W) 3.5 W) 200 W) 25		CONNEXIONS See drawing, page 3. DIMENSIONS See drawing, page 3
	CAPACITANCE. (pF) C (input) C (output) C a g		40 14 0.4		<u>PACKAGING</u> See K 1005

NOTE

- A. Measured at Va = 3.0 kV, Vg2 = 1500 V, Ia = 1.0 A.
- B. It is not essential that the additional markings shall appear within the frame.

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z.20696.

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TESTS

To be performed in addition to those applicable in K 1001

						· 	LIMITS		NO.	NOTE	
	TEST CONDITIONS					TEST	MIN.	MAX.	TES-		
8,	See K 1001/A/III					CAPACITANCES (pF) Ca - all. Cg - sll.	11 38	15 47	10%		
ъ	Vf (V)	Vg1 (V)	∀g 2 (∀)	Va (k▼)	Ia (A)	If (A)	59	71	100%	2	
	5.0	_ :	-	-	-						
c	5.0	3000	3000	3.0		Ie (A)	18	_	100%	3.2	
đ	5.0	Adjust	1500	4.0	1.0	Ig2 (mA) Rev. Ig1 (MA) Vg1 (V)	-170	30 32 -260	100% 100% 100%	2 1.2 2	
e	5.0	Adjust	1500	4.0	0.05	Rev. Ig1 (AA)	_	20	100%	2	
Ì						Vg1 (V)	_	-500	100%	2	
f	5.0	Read	1:500	3.0	0.75	gm (mA/V	7.5	9.0	100%	2	
	3.0	Read	1500	3.0	1.25	gm (mA/V	(•)	7.0	1.00/0		
g		Read	1:000	3.0	1.0	Inner µ					
		Read	1500	3.0	1.0		3.7	5.1	100%	2	
h	5.0			6.0	-	OSCILLATION TEST (1) Ia (A)	1.2	1.6	100%	4.2	
j						s of Ig1 in tests d and e. Difference in measure-					
k	5.0			6.0	,	OSCILLATION TEST (2)			T.A.	5	

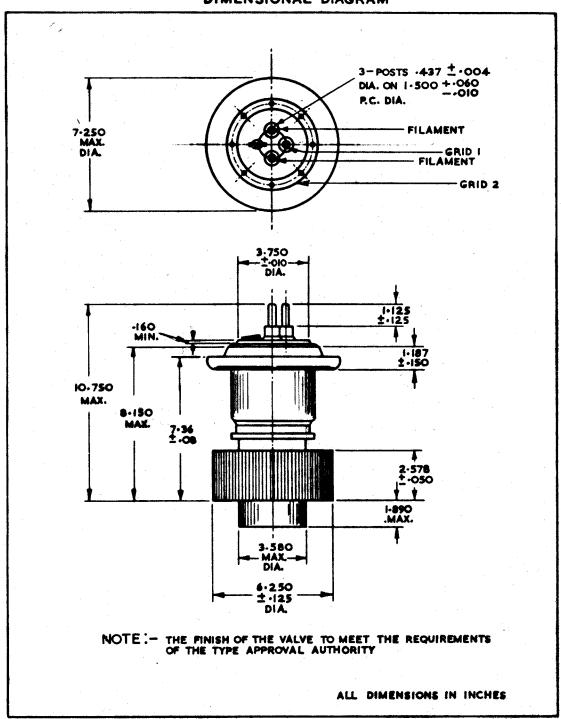
NOTES

- 1. The Ig1 test in test d shall be continued for 10 minutes and the value of Ig1 shall
- not be rising at the end of the test period.

 Tests are to be carried out with the filament heated by 50 c.p.s. current, and all circuit returns shall be made to the centre tap on the filament transformer secondary. Air flow of 350 c/f/minute: through radiator.
- 3. Peak emission to be obtained by pulse method as outlined in K 1001 AV, or by other apparatus approved by the TYPE APPROVAL authority.
- Oscillation frequency = 0.5 Mc/s. Vg2 = 0.75/1.25 kV, Ig1 = 40/80mA, Rg = 6000 ohms. Oscillate for 20 minutes
- The Oscillation Test (2) shall be conducted at an oscillation frequency of 30 Mc/s in a circuit approved by the TYPE APPROVAL authority.

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DIMENSIONAL DIAGRAM



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