

VALVE ELECTRONIC

CV1671

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

(POVT 102)

Specification: G.P.O./CV1671/Issue 1	<u>SECURITY</u>	
Dated: 4.11.46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

-----> indicates a change

<u>TYPE OF VALVE:</u> Triode			<u>MARKING</u> See K1001/4			
<u>CATHODE:</u> Directly heated						
<u>ENVELOPE:</u> Unmetallised glass						
<u>PROTOTYPE</u> 4021A						
<u>RATING</u>			Note	<u>BASE</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B.		
				<u>CONNEXIONS</u>		
				Pin	Electrode	
Filament current (A)	0.25	A		1	Grid	
Nominal filament voltage (V)	4.0			2	Filament -	
Max. anode voltage (V)	180			3	Filament +	
Anode impedance (ohms)	2000			4	Anode	
Amplification factor	6.0					
Mutual conductance (mA/V)	3.0					
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See K1001/A1/D1			
C _{ag} (nominal)	9.1	A				
C _{ae} (nominal)	4.6					
C _{ge} (nominal)	8.0					
			Dimension	Min.	Max.	
			A	-	127	
			B	-	60	

NOTE

- A. Measured with $V_a = 130$, and $V_g = -8$.
- B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

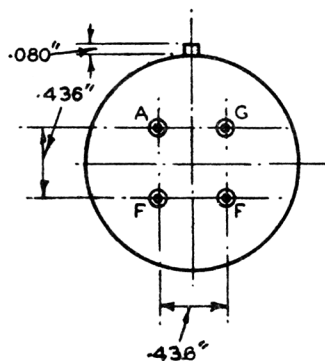
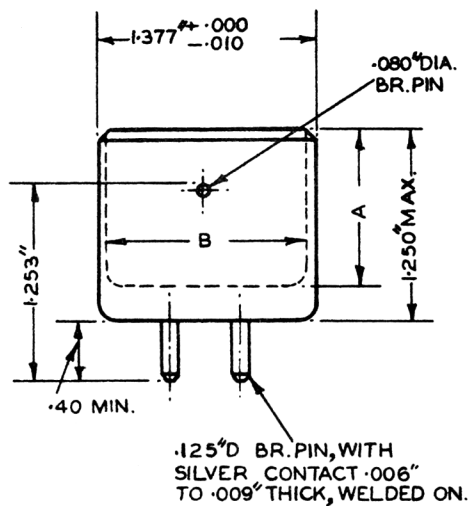
To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	See K1001/AIII			<u>CAPACITANCES (pF)</u>				
	Links to H.P.	Links to L.P.	Links to E					
	4	1	2,3,5,6,7, 8,9,10, TC1,TC2	(i) Cag	-	15.0	6 per week	
	4	2,3	1,5,6,7,8, 9,10, TC1, TC2	(ii) Cae	-	15.0	6 per week	
	1	2,3	4,5,6,7,8, 9,10,TC1, TC2	(iii) Cge	-	15.0	6 per week	
	If(A)	Va	Vg					
(b)	0.25	-	-	Vf (V)	3.7	4.3	100%	
(c)	0.25	130	-30	Ia (μA)	-	200	100%	
(d)	0.25	130	-8	Reverse Ig (μA)	-	0.5	100%	
(e)	0.25	130	-8	μ	5.0	7.0	100%	
(f)	0.25	130	-8	Ra"x" (ohms)	1600	2400	100%	
(g)	0.23	130	-8	Ra"y" (ohms)	-	1.2"x"	100%	1

NOTE

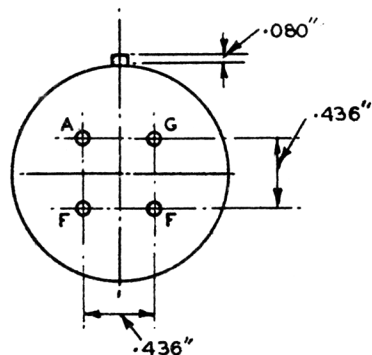
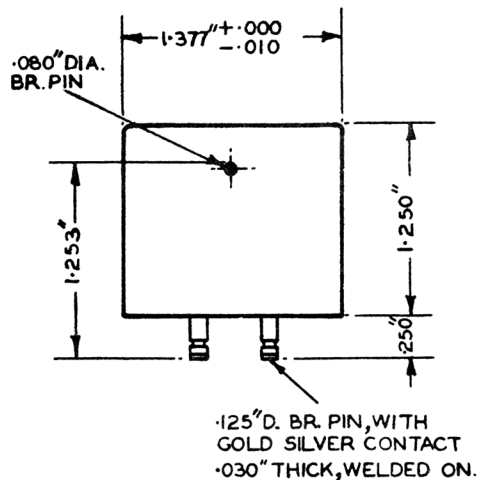
1. Re-adjust If with Va = Vg = 0

OUTLINE DRAWING



INTERNAL DIMENSIONS A & B
TO SUIT MANUFACTURERS
REQUIREMENTS.

FIG. 1. MOULDED TYPE.



MATERIAL: - NI. P. BRASS CYLINDER
WITH MOULDED INTERIOR.

FIG. 2. METAL SHELL TYPE.

SPECIFICATION G.P.O./1671/ISSUE 1

AMENDMENT NO. 1

Page 1

DIMENSIONS

Amend the maximum limit dimension "A" to read 118 mm.

Amend the maximum limit dimension "B" to read 46 mm.

T.V.C. Office
(for G.P.O.)

November, 1949

N.165652