

VALVE ELECTRONIC **CV1646**GENERAL POST OFFICE: E-IN-C (S)

(POVT 38A)

Specification: G.P.O./CV 1646/Issue 2 Dated: 15-1-47 To be read in conjunction with K 1001	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Restricted	Restricted
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
Restricted	Restricted						

— — — — — indicates a change

<u>TYPE OF VALVE:</u> Triode				<u>MARKING</u>		
<u>CATHODE:</u> Directly heated				See K 1001/4		
<u>ENVELOPE:</u> Unmetallised glass						
<u>PROTOTYPE</u> E 1453						
<u>R A T I N G</u>				<u>B A S E</u>		
				Bayonet cap 4-pin (BC4)		
				See drawing on page 3 and Note B.		
				<u>C O N N E X I O N S</u>		
				<u>Pin</u>		<u>Electrode</u>
Filament current	(A)	0.15	A A A	1	Grid	
Nominal filament voltage	(V)	4.0		2	Filament -	
Max. anode voltage	(V)	200		3	Filament +	
Mutual conductance	(mA/V)	1.72		4	Anode	
Amplification factor		9.5				
Anode impedance	(ohms)	5,500				
				<u>D I M E N S I O N S</u>		
				See K 1001/A1/D1		
				<u>Dimension</u>		<u>Min.</u> <u>Max.</u>
				A (mm)		- 127
				B (mm)		- 64

N O T E

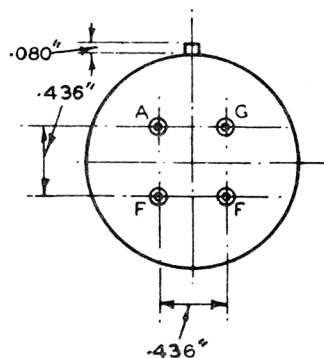
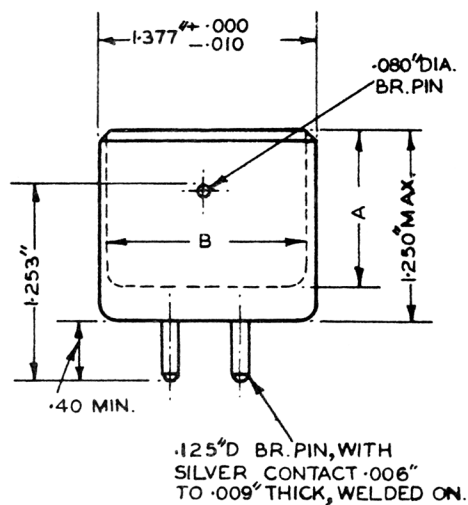
- A. Measured with $V_a = 150$, and $V_g = -5$
- B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

To be performed in addition to those applicable in K 1001

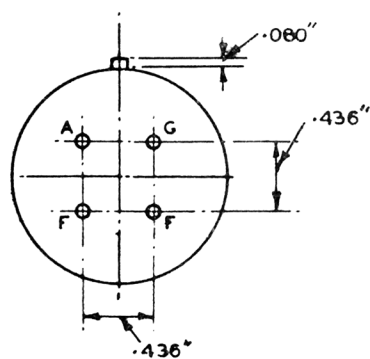
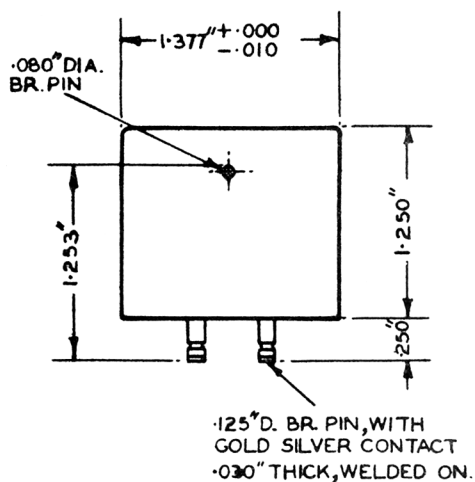
	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	If (A)	Va	Vg		Min.	Max.		
	(a)	0.15	-		-	Vf (V)	3.7	
(b)	0.15	150	-5	Ia (mA)	7.8	14.4	100%	
(c)	0.15	150	-5	gm (mA/V)	1.29	2.15	100%	
(d)	0.15	150	-5	Reverse Ig (μA)	-	0.5	100%	
(e)	0.15	150	-5	μ	8.4	10.6	1%	

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. .