

VALVE ELECTRONIC

CV. 1647.

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

(POVT 40)

Specification: G.P.O./CV 1647/Issue 2 Date: 15-1-47 To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		<u>Specification</u>	<u>Valve</u>	Restricted	Restricted
SECURITY							
<u>Specification</u>	<u>Valve</u>						
Restricted	Restricted						

... indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> LS5B				<u>MARKING</u> See K 1001/4			
<u>R A T I N G</u>				Note	<u>B A S E</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B. <u>CONNEXIONS</u>		
Filament current	(A)	0.85			Pin	Electrode	
Nominal filament voltage	(V)	4.85					
Max. anode voltage	(V)	400					
Mutual conductance	(mA/V)	0.8	A	1	Grid		
Amplification factor		20.0	A	2	Filament -		
Anode impedance	(ohms)	25,000	A	3	Filament +		
				4	Anode		
				<u>DIMENSIONS</u> See K 1001/A1/D1			
				Dimension	Min.	Max.	
				A (mm)	-	127	
				B (mm)	-	64	

NOTE

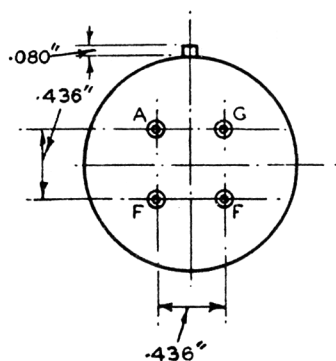
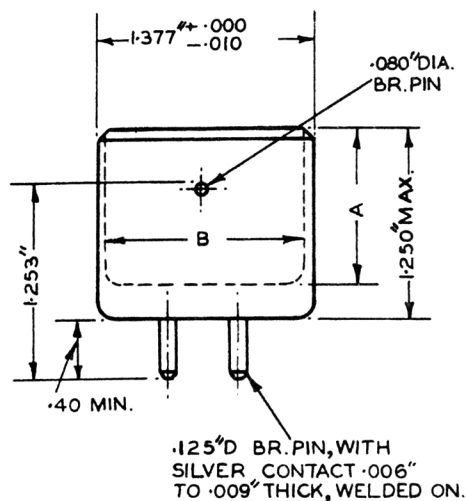
- A. Measured with $V_a = 150$, and $V_g = -1.5$.
- B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

To be performed in addition to those applicable in K 1001

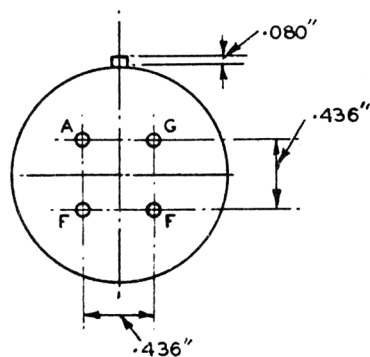
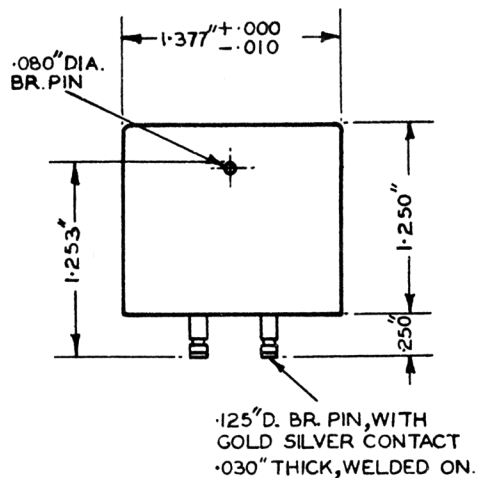
	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	Test Voltage 500 Volts, D.C.			<u>INSULATION (megohms)</u>				
				(i) Anode to filament	100	-	1%	
				(ii) Between all other electrodes	500	-	1%	
				(iii) Between any electrode and metallic shell of the base.	500	-	1%	
	If (A)	Va	Vg					
(b)	0.85	-	-	Vf (V)	4.5	5.2	100%	
(c)	0.85	150	-1.5	Reverse Ig (μ A)	-	0.1	100%	
(d)	0.85	150	-1.5	μ	16.0	24.0	100%	
(e)	0.85	150	-1.5	Ia (mA)	2.1	3.5	100%	
(f)	0.85	150	-1.5	gm (mA/V)	0.65	1.05	100%	
(g)	0.85	40	40	Ie (mA)	35.0	-	100%	

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. .