

VALVE ELECTRONIC **CVI644**GENERAL POST OFFICE: E-IN-C (S)

(POVT 37C)

Specification: G.P.O./CVI644/Issue 3 Dated: 12.2.46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE</u> E1532			<u>MARKING</u> See K1001/4		
<u>RATING</u>			Note	<u>BASE</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note C.	
Filament-plus-shunt current	(A)	0.82		A	<u>CONNEXIONS</u>
Nominal filament voltage	(V)	2.0		Pin	Electrode
Max. anode voltage	(V)	150		1	Grid
Mutual conductance	(mA/V)	0.6	B	2	Filament -
Amplification factor		30.0	B	3	Filament +
Anode impedance	(ohms)	50,000	B	4	Anode
<u>DIMENSIONS</u>			See K1001/A1/D1		
Dimension		Min.	Max.		
A	(mm)	-	127		
B	(mm)	-	65		

NOTES

- A. This valve has an internal shunt connected across the filament and the combination is designed to operate with a total current of 0.82 amps at a nominal voltage of 2 volts.
- B. Measured with $V_a = 150$ and $V_g = -1.5$
- C. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

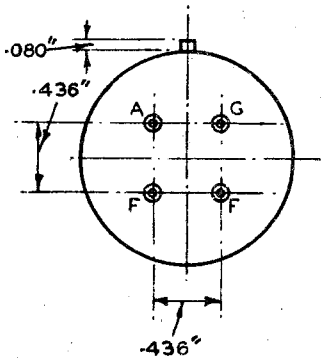
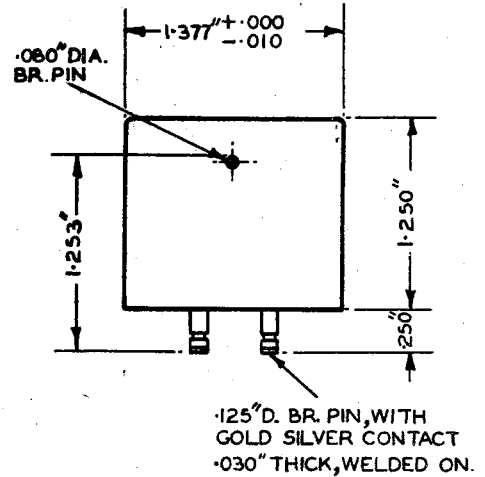
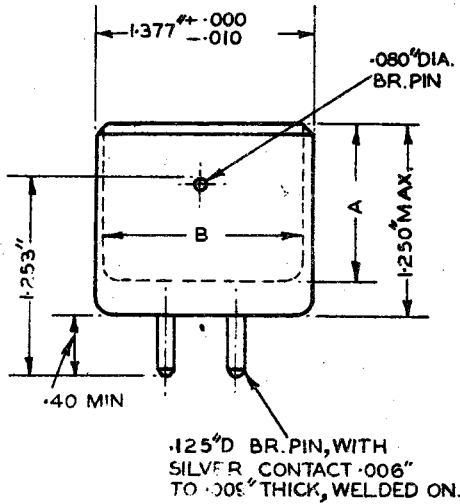
To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	If(A)	Va	Vg		Min.	Max.		
	(a)	0.82	-		-	Vf (V)	1.8	2.2
(b)	0.82	130	-1.5	Reverse Ig (μ A)	-	0.5	100%	1
(c)	0.82	130	-1.5	Ia (mA)	0.6	1.1	100%	1
(d)	0.82	130	-1.5	μ	25.0	35.0	1%	1
(e)	0.82	130	-7.0	Ia (μ A)	-	1.5	100%	1
(f)	0.82	130	-1.5	gm (mA/V)	0.48	0.72	100%	1

NOTE

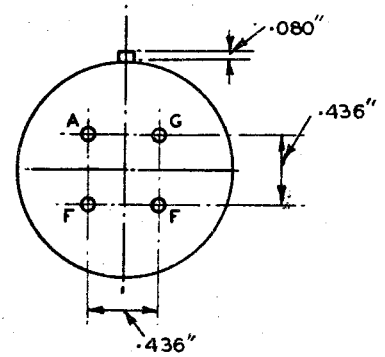
1. If = 0.82A is the combined filament and shunt current.

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.