VALVE ELECTRONIC CV1643

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

(POVT 37B)

Specification: G.P.O./CV1643/Issue 2	SECURITY	
Dated: 12.12.46	Specification	Valve
To be read in conjunction with K 1001	Restricted	Restricted

——→ indicates a change

TYPE OF VALVE: Triode
CATHODE: Directly heated
ENVELOPE: Unmetallised glass
PROTOTYPE E 132

MARKING

See K1001/4

RATING

			Note
Filament current	(A)	0.82	
Nominal filament voltage	(V)	2.0	
Max. anode voltage	(V)	150	
Mutual conductance	(mA/V)	0.55	A
Amplification factor		30.0	A
Anode impedance	(ohms)	55,000	A

BASE

Bayonet cap 4-pin (BC4)
See drawing on page 3 and Note B.

CONNEXIONS

Pin	Electrode
1	Grid
2	Filament -
3	Filament +
4	Anode

DIMENSIONS

See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	-	127
B (mm)	-	65

NOTE

A. Measured with Va = 130, and Vg = -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 K1001

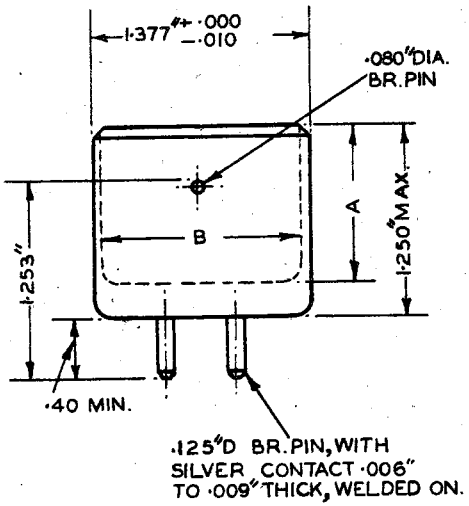
	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	Test Voltage 500 Volts, D.C.			Insulation (megohms)				
				(i) Anode to filament	100	-	1%	
				(ii) Anode to grid	500	-	1%	
				(iii) Grid to filament	500	-	1%	
	If(A)	Va	Vg					
(b)	0.82	-	-	Vf (V)	1.8	2.2	100%	
(c)	0.82	130	-1.5	Reverse Ig (μA)	-	0.1	100%	
(d)	0.82	130	-1.5	Ra (ohms)	44,000	66,000	100%	
(e)	0.82	130	-1.5	μ	25.0	35.0	100%	
(f)	0.82	150	-7	Ia (μA)	-	1.5	100%	
(g)	-	130	0	Vf (V)	-	1.3	100%	1

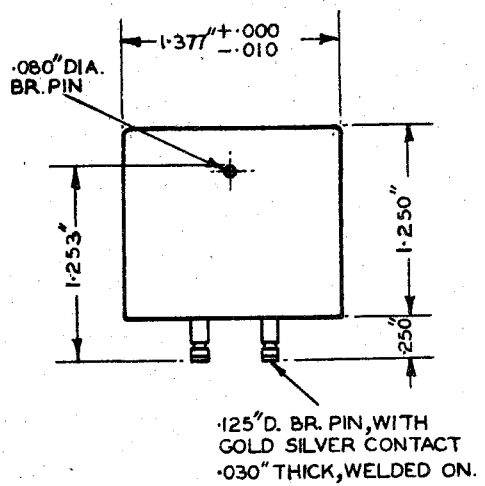
NOTE

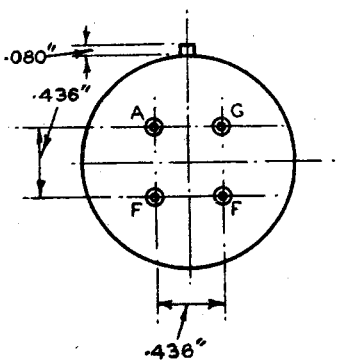
1. Vf to be adjusted to give Ia = 0.5 mA.

CV1643

OUTLINE DRAWING

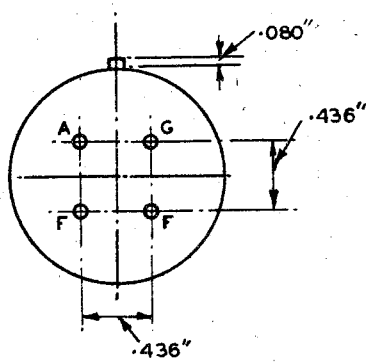






INTERNAL DIMENSIONS A & B TO SUIT MANUFACTURERS REQUIREMENTS.

FIG. 1. MOULDED TYPE.



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

FIG. 2. METAL SHELL TYPE.