VALVE ELECTRONIC CV 1619

(POVT 58)

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

Specification: G.P.O./CV1619/Issue 1 Dated: 11.4.47 To be read in conjunction with K 1001	SECURITY Specification: Restricted Valve: Restricted

——→ indicates a change

TYPE OF VALVE: Transmitting triode
CATHODE: Directly heated thoriated tungsten filament
ENVELOPE: Unmetallised glass
PROTOTYPE: MZ2 - 200; 4212E

MARKING
See K1001/4
Additional markings required (See notes A & B)
Serial No. .....
Filament Volts 14.0

RATING			Note
Filament voltage	(V)	14.0	
Nominal filament current	(A)	6.0	
Max. anode voltage	(kV)	2.0	
Max. anode dissipation	(W)	250.0	
Max. operating frequency	(Mc/s)	21.0	
Amplification factor		16.0	C
Mutual conductance	(mA/V)	8.0	C
Anode impedance	(ohms)	2000	C

BASE
See drawing on page 3

CONNEXIONS
See drawing on page 3

DIMENSIONS
See drawing on page 3

PACKING
See K1001/7.3

NOTES

A. The Serial Numbers will be allotted by the Inspecting Officer

B. It is not essential that the additional markings shall appear within the frame

C. Measured with Va = 1.5 kV, and Ia = 130 mA.

TESTS

The tests shown in Table I, or alternatively, those shown in Table II, shall be performed in addition to those applicable in K1001.

Table I (for A.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	14.0	-	-	-	If (A)	5.6	6.4	100%	
(b)	14.0	1.5	Adjust	200	Reverse Ig (μA)	-	75.0	100%	1
(c)	14.0	1.0 / 2.0	Adjust	150	μ	14.4	17.6	100%	
(d)	14.0	1.5	-67	Read	Ia (mA)	135.0	185.0	100%	

Table II (for D.C. filament heating)

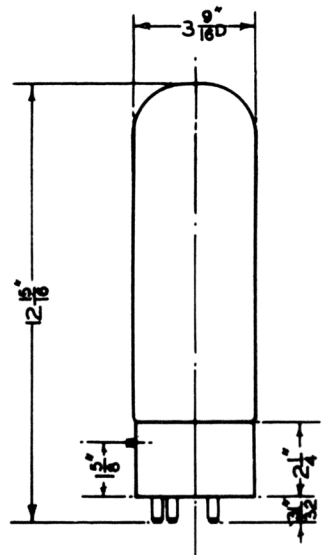
	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	14.0	-	-	-	If (A)	5.6	6.4	100%	
(b)	14.0	1.5	Adjust	200	Reverse Ig (μA)	-	75.0	100%	1
(c)	14.0	1.0 / 2.0	Adjust	150	μ	14.4	17.6	100%	
(d)	14.0	1.5	-60	Read	Ia (mA)	135.0	185.0	100%	

NOTE

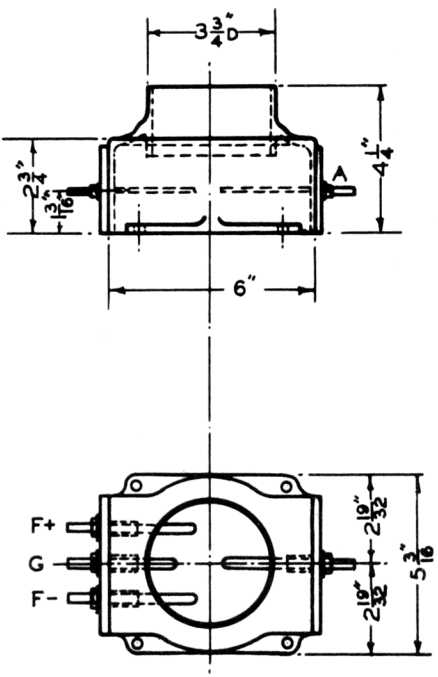
1. The duration of test (b) shall be 2 minutes, and the reverse grid current shall not be rising at the end of the test.

CV1619

OUTLINE DRAWING



VIEW OF
VALVE BASE



DETAILS OF
HOLDER