

VALVE ELECTRONIC **CV 1619**

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

(POVT 58)

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

—————> indicates a change

<u>TYPE OF VALVE:</u> <b>Transmitting triode</b> <u>CATHODE:</u> <b>Directly heated thoriated tungsten filament</b> <u>ENVELOPE:</u> <b>Unmetallised glass</b> <u>PROTOTYPE:</u> <b>MZ2 - 200; 4212E</b>		<u>MARKING</u> See K1001/4 Additional markings required (See notes A & B) Serial No. .... Filament Volts 14.0	
<u>RATING</u>		Note	<u>BASE</u> See drawing on page 3
Filament voltage	(V)	14.0	<u>CONNEXIONS</u> See drawing on page 3
Nominal filament current	(A)	6.0	
Max. anode voltage	(kV)	2.0	<u>DIMENSIONS</u> See drawing on page 3
Max. anode dissipation	(W)	250.0	
Max. operating frequency	(Mc/s)	21.0	
Amplification factor		16.0	<u>PACKING</u> See K1001/7.3
Mutual conductance	(mA/V)	8.0	
Anode impedance	(ohms)	2000	
<u>NOTES</u>			
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 $V_a = 1.5$ kV, and $I_a = 130$ 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
	V <sub>f</sub> (V)	V <sub>a</sub> (kV)	V <sub>g</sub> (V)	I <sub>a</sub> (mA)		Min.	Max.		
(a)	14.0	-	-	-	I <sub>f</sub> (A)	5.6	6.4	100%	
(b)	14.0	1.5	Adjust	200	Reverse I <sub>g</sub> (μA)	-	75.0	100%	1
(c)	14.0	$\frac{1.0}{2.0}$	Adjust	130	μ	14.4	17.6	100%	
(d)	14.0	1.5	-67	Read	I <sub>a</sub> (mA)	135.0	185.0	100%	

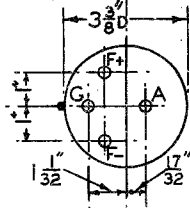
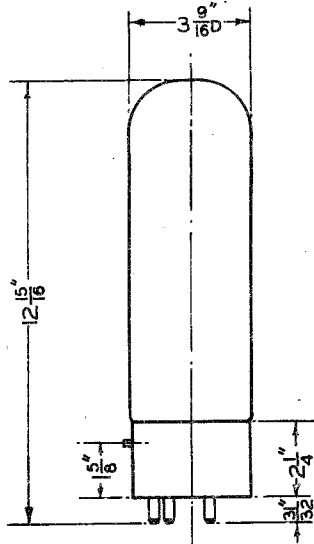
Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	V <sub>f</sub> (V)	V <sub>a</sub> (kV)	V <sub>g</sub> (V)	I <sub>a</sub> (mA)		Min.	Max.		
(a)	14.0	-	-	-	I <sub>f</sub> (A)	5.6	6.4	100%	
(b)	14.0	1.5	Adjust	200	Reverse I <sub>g</sub> (μA)	-	75.0	100%	1
(c)	14.0	$\frac{1.0}{2.0}$	Adjust	130	μ	14.4	17.6	100%	
(d)	14.0	1.5	-60	Read	I <sub>a</sub> (mA)	135.0	185.0	100%	

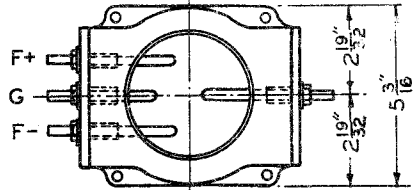
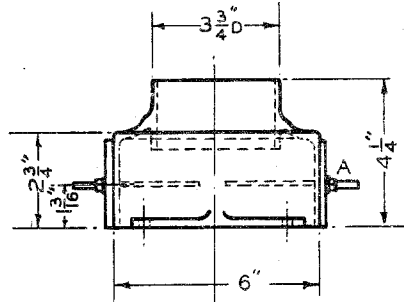
NOTE

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

OUTLINE DRAWING



VIEW OF  
VALVE BASE



DETAILS OF  
HOLDER