

VALVE ELECTRONIC **CV1627**GENERAL POST OFF E: E-IN-C (W)

(POVT 187)

Specification: G.P.O./CV 1627/Issue 1 Dated: 21.2.47 To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		Specification	Valve	Restricted	Restricted
SECURITY							
Specification	Valve						
Restricted	Restricted						

... indicates a change

<u>TYPE OF VALVE:</u> H.F. Pentode			<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No. Filament Volts 10.0		
<u>CATHODE:</u> Directly heated					
<u>ENVELOPE:</u> Unmetallised glass					
<u>PROTOTYPE</u> 5D/100A					
<u>RATING</u>			<u>BASE</u> See drawing on page 3		
			<u>CONNECTIONS</u> See drawing on page 3		
			<u>DIMENSIONS</u> See drawing on page 3		
			<u>PACKING</u> See K1001/7.3		

NOTES

- The Serial Numbers will be allotted by the Inspecting Officer
- It is not essential that the additional markings shall appear within the frame
- The maximum frequency of operation for these ratings is 10 Mc/s
- Measured with $V_a = 3000$, $V_{g2} = 800$, $V_{g3} = 0$, and $V_{g1} = -21V$ (A.C. filament) or $-16V$ (D.C. filament).

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)	Vg1(V)	Vg2(V)	Vg3(V)	Ia(mA)		Min.	Max.		
(a)	10	-	-	-	-	-	If (A)	15.1	16.7	100%	
(b)	10	2	2000	2000	2000	-	Ie(Peak) (A)	7.5	-	100%	1
(c)	10	3	-16	Adjust	0	333	Reverse Ig (μ A)	-	20.0	100%	2
(d)	10	3	-16	800	0	Read	Ia (mA)	260	340	100%	
(e)	10	3	-16	800	0	-	Ig2 (mA)	-	30.0	100%	
(f)	10	3	-16	800	0	Read	gm (mA/V)	3.8	5.2	100%	
			-26			Read					
(g)	10	3	-16	800	-300	Read	Ia (mA)	-	240	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS						TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg1(V)	Vg2(V)	Vg3(V)	Ia(mA)		Min.	Max.		
(a)	10	-	-	-	-	-	If (A)	15.1	16.7	100%	
(b)	10	2	2000	2000	2000	-	Ie(Peak) (A)	7.5	-	100%	1
(c)	10	3	-11	Adjust	0	333	Reverse Ig (μ A)	-	20.0	100%	2
(d)	10	3	-11	800	0	Read	Ia (mA)	260	340	100%	
(e)	10	3	-11	800	0	-	Ig2 (mA)	-	30.0	100%	
(f)	10	3	-11	800	0	Read	gm (mA/V)	3.8	5.2	100%	
			-21			Read					
(g)	10	3	-11	800	-300	Read	Ia (mA)	-	240	100%	

NOTES

- The test shall be performed in accordance with K1001/AV
- The duration of test (c) shall be 15 minutes and the reverse grid current shall not be rising at the end of the test.

OUTLINE DRAWING

