

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

(POVT 59)

Specification: G.P.O./CV1620/Issue 1 Dated: 11.4.47 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> Transmitting triode		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No. Filament Volts 10.0
<u>CATHODE:</u> Directly heated thoriated tungsten filament		
<u>ENVELOPE:</u> Unmetallised glass		
<u>PROTOTYPE</u> DET 6; 4094A		
<u>RATING</u>		<u>BASE</u> See drawing on page 3
		Note
Filament voltage	(V) 10.0	
Nominal filament current	(A) 3.0	
Max. anode voltage	(kV) 1.5	
Max. anode dissipation	(W) 65.0	
Amplification factor	37.0	C
Mutual conductance	(mA/V) 4.0	C
Anode impedance	(ohms) 9500	C
Max. frequency of operation	(Mc/s) 6.0	
		<u>CONNECTIONS</u> See drawing on page 3.
		<u>DIMENSIONS</u> See drawing on page 3.
		<u>PACKING</u> See K1001/7.3
<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 $V_a = 1$ kV, and $I_a = 30$ mA.		

The tests shown in Table I, or alternatively, those shown in Table I 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)	10.0	-	-	-	If (A)	2.8	3.2	100%	
(b)	10.0	1.5	Adjust	43	Reverse Ig (μA)	-	15.0	100%	1
(c)	10.0	0.5	Adjust	30	μ	34.0	40.0	100%	
		1.5							
(d)	10.0	0.75	0	Read	Ia (mA)	50.0	80.0	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)	10.0	-	-	-	If (A)	2.8	3.2	100%	
(b)	10.0	1.5	Adjust	43	Reverse Ig (μA)		15.0	100%	1
(c)	10.0	0.5	Adjust	30	μ	34.0	40.0	100%	
		1.5							
(d)	10.0	0.75	5	Read	Ia (mA)	50.0	80.0	100%	

NOTE

- The duration of test (b) shall be 10 minutes and the reverse grid current shall not be rising at the end of the test.

