

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

(POVT 46)

Specification: G.P.O./CV1616/Issue 1 Dated: 21.2.47 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>CATHODE:</u> Directly heated tungsten filament <u>ENVELOPE:</u> Umetallised glass <u>PROTOTYPE:</u> -		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A, B & C) Serial No..... Filament Volts	
<u>RATING</u>		<u>BASE</u>	
		See drawing on page 3	<u>CONNEXIONS</u>
		See drawing on page 3	<u>DIMENSIONS</u>
		See drawing on page 3	<u>PACKING</u>
		See K1001/7.3	
<u>NOTES</u>			
<p>A. The Serial Numbers will be allotted by the Inspecting Officer</p> <p>B. The Marked Voltage is defined on page 2, test (a)</p> <p>C. It is not essential that the additional markings shall appear within the frame</p> <p>D. The maximum frequency of operation for these ratings is 20 Mc/s</p> <p>E. Measured with $V_a = 3$ kV, and $I_a = 60$ mA.</p>			

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(kV)	Ia(mA)		Min.	Max.		
(a)	Read	0.4	0.4	-	Vf. Minimum required for peak emission of 0.6 amps. To be known as "Marked Voltage" (V)	11.0	13.0	100%	1
(b)	M.V.	-	-	-	If (A)	8.0	12.0	100%	
(c)	M.V.	3	Adjust	84	Reverse Ig (μ A)	-	30.0	100%	2
(d)	M.V.	2	Adjust	60	μ	18.0	26.0	100%	
		4	Adjust						
(e)	M.V.	2.5	Read	50	Vg (V)	-56.0	-80.0	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.		
(a)	Read	0.4	0.4	-	Vf. Minimum required for peak emission of 0.6 amps. To be known as "Marked Voltage" (V)	11.0	13.0	100%	1
(b)	M.V.	-	-	-	If (A)	8.0	12.0	100%	
(c)	M.V.	3	Adjust	84	Reverse Ig (μ A)	-	30.0	100%	2
(d)	M.V.	2	Adjust	60	μ	18.0	26.0	100%	
		4	Adjust						
(e)	M.V.	2.5	Read	50	Vg (V)	-50.0	-74.0	100%	

NOTES

1. The test shall be performed in accordance with K1001/AV
2. 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

