

GENERAL POST OFFICE: **S-IN-C** (S)

(POVT 75, AR11)

Specification: G.P.O./ CV1655/Issue 1 Dated: 18.10.45 To be read in conjunction with K1001	<u>SECURITY</u> <u>Specification</u> Restricted	<u>Valve</u> Restricted
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→ indicates a change

<u>TYPE OF VALVE</u>			Triode.			<u>MARKING</u>			
<u>CATHODE</u>			Directly heated.			See K1001/4			
<u>ENVELOPE</u>			Unmetallised glass.						
<u>PROTOTYPE</u>			4019B						
<u>RATING</u>				<u>Note</u>		<u>BASE.</u>			
						British 4-pin (B4)			
Filament Current. (A)				0.25		<u>CONNECTIONS.</u>			
Nominal Filament Voltage. (V)				4.0		<u>Pin</u>		<u>Electrode</u>	
Max. Anode Voltage. (V)				190					
Mutual Conductance. (mA/V)				1.27		1		Anode	
Amplification Factor.				7		2		Grid	
Anode Impedance. (ohms)				5.500		3		Filament -	
						4		Filament +	
<u>CAPACITANCES (pF)</u>						<u>DIMENSIONS</u>			
Cag. (max)				6.5		See K1001/A1/D1.			
Cae. (max)				7.0		<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
Cge. (max)				9.0					
						A (mm)		-	120
						B (mm)		-	50
<u>NOTES.</u>									
A. Measured with $V_a = 130$ and $V_g = -8$									
B. The plane of the anode and grid pins shall lie within 25° of the plane of the filament.									

TESTS

To be performed in addition to those applicable in K1001.

(a)	TEST CONDITIONS			TEST	LIMITS		No tested	Note
	See K1001/AlII				Min.	Max.		
	Links to H.P.	Links to L.P.	Links to E					
				CAPITANCES (pF)				
	1	2	3,4,5,6,7,8,9,10, T.C.1 T.C.2.	(i) Cag	-	6.5	6 per week	
	1	3,4	2,5,6,7,8,9,10, T.C.1 T.C.2.	(ii) Cae	-	7.0	"	
	2	3,4	1,5,6,7,8,9,10, T.C.1 T.C.2.	(iii) Cge	-	9.0	"	
	If (A) D.C.	Va	Vg					
(b)	0.25	0	0	Vf (v)	3.7	4.3	100%	
(c)	0.25	130	-20	Ia (μA)	-	200	100%	
(d)	0.25	130	-8	μ	6.0	8.0	100%	
(e)	0.25	130	-8	Ra "X" (ohms)	4500	6500	100%	
(f)	0.25	130	-8	Reverse Ig (μA)	-	0.5	100%	
(g)	0.23	130	-8	Ra "Y" (ohms)	-	1.2"X"	100%	1

NOTES

1. Re-adjust If with Va= Vg=0

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AMENDMENT NO.1

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DIMENSIONS

Amend the maximum limit dimension "B" to read 46mm.

January 1950

T.V.C. Office
(for G.P.O)

N.6101.