

VALVE ELECTRONIC **CV.1659.**

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

(POVT 81)

Specification: G.P.O./CV 1659/Issue 1 Dated: 24-4-46 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> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> 4022B				<u>MARKING</u> See K 1001/4		
<u>RATING</u>		Note	<u>BASE</u> British 4-pin (B4)			
			<u>CONNECTIONS</u>			
Filament current	(A)	0.25	Pin	Electrode		
Nominal filament voltage	(V)	4.0	1	Anode		
Max. anode voltage	(V)	160	2	Grid		
Max. anode dissipation	(W)	2.5	3	Filament -		
Anode impedance	(ohms)	5,500	4	Filament +		
Amplification factor		12				
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>			
C _{ag}	(nominal)	9.6	See K 1001/A1/D1			
C _{ae}	(nominal)	4.3	Dimension	Min.	Max.	
C _{ge}	(nominal)	8.1	A (mm)	-	115	
			B (mm)	-	60	
<u>NOTES</u>						
A. Measured with V _a = 130, and V _g = -4.5 B. The plane of the anode and grid pins shall lie within 25° of the plane of the filament.						

Officially awarded
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TESTS

To be performed in addition to those applicable in K 1001

TEST CONDITIONS			TEST	LIMITS		No. Tested	Note	
				Min.	Max.			
See K 1001/A III			<u>CAPACITANCES (pF)</u>					
(a)	Links to H.P.	Links to L.P.		Links to E				
1	2	3,4,5,6,7,8, 9,10,TC1,TC2		(i) Cag	-	14.0	6 per week	
1	3, 4	2,5,6,7,8,9, 10,TC1,TC2		(ii) Cae	-	14.0	6 per week	
2	3,4	1,5,6,7,8,9, 10,TC1,TC2	(iii) Cge	-	14.0	6 per week		
	If (A) (DC)	Va	Vg					
(b)	0.25	0	0	Vf (V)	3.6	4.4	100%	
(c)	0.25	130	-13	Ia (μ A)	-	200	100%	
(d)	0.25	130	-4.5	Reverse Ig (μ A)	-	0.5	100%	
(e)	0.25	130	-4.5	μ	10	14	100%	
(f)	0.25	130	-4.5	Ra "x" (ohms)	4,200	6,800	100%	
(g)	0.23	130	-4.5	Ra "y" (ohms)	-	1.2"x"	100%	1

NOTE

1. Re-adjust If with $V_a = V_g = 0$