

VALVE ELECTRONIC

CVI635

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

Specification: <b>GPO/CVI635 Issue 1</b> Dated: <b>January, 1956.</b> To be read in conjunction with K 1001, BS 448 & BS 1409	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <th><u>Specification</u></th><th><u>Valve</u></th></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
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<u>TYPE OF VALVE:</u> <b>HF Pentode</b>				<u>MARKING</u>			
<u>CATHODE:</u> <b>Indirectly Heated</b>				See K 1001/4			
<u>ENVELOPE:</u> <b>Glass</b>				<u>BASE</u>			
<u>PROTOTYPE</u> <b>5A/163K</b>				BS 448/B9A			
<u>RATING</u>				Note	<u>CONNECTIONS</u>		
					Pin	Electrode	
Heater Voltage	(V)	6.3			1	g3,s	
Heater Current	(A)	0.5			2	g1	
Max. Anode Voltage	(V)	350			3	g3,s	
Max. Screen Voltage	(V)	350			4	h	
Max. Anode Dissipation	(W)	3.5			5	h	
Max. Screen Dissipation	(W)	1.4			6	a	
Mutual Conductance	(mA/V)	15	A		7	k	
Screen Grid Amplification Factor		70	A		8	k	
					9	g2	
					<u>DIMENSIONS</u>		
					See BS448/B9A/2.1		
					Size ref. No.2		
<u>CAPACITANCES</u> (pF)					Dimensions (mm)	Min.	Max.
Cae		3.6	B		A seated height	-	49.0
Cge		13.0	B		C diameter	19.0	22.2
Cag		0.016	B		D overall length	-	56.0
<u>NOTES</u>							
A. Measured at Va = Vg2 = 200V, Ia = 15 mA.							
B. Measured without additional screening.							

Tests

To be performed in addition to those applicable in K 1001

Test Conditions									Test	LI		No. Tested	Note
										Min.	Max.		
a	See K 1001/A III								Capacitances(pF)	-	15.5	6 per week	1
	Links to H.P.		Links to L.P.		Links to E								
	2		1, 3, 4, 5, 7, 8, 9		6, 10. T.C.1, T.C.2.		Cge						
	6		1, 3, 4, 5, 7, 8, 9		2, 10, T.C.1, T.C.2.		Cae						
	6		2		1, 3, 4, 5, 7, 8, 9, 10, T.C.1, T.C.2		Cag						
b	Vh (V)	Vg1 (V)	Vg2 (V)	Vg3 (V)	Va (V)	Rk (ohms)	Rg (M)	Ia (mA)	Ie (mA)	12	-	100%	2
	4	+4	+4	+4	+4	-	-	-					
c	6.3	0	0	0	0	-	-	-	Ih (A)	0.45	0.55	100%	3
d	6.3	Adjust	200	0	200	-	-	-	Vg1 (V)	-0.75	-2.2	100%	
e	6.3	Adjust	200	0	200	-	-	15	gm (mA/V)	11	-	100%	
f	6.3	Adjust	200	0	200	-	-	0.1	CUT-OFF TEST Vg1 (V)	-	-9.0	100%	
g	6.3	+7.5	200	0	200	450	0	-	Ig2 (mA)	3	8	100%	
h									REVERSE GRID CURRENT TEST	-	20	100%	3
	6.3	+7.5	200	0	200	450	10	-	Ia (mA)				

NOTES

1. Measured without additional screening.
2. Allow not less than one minute for the cathode to warm up. Take the cathode emission current reading approximately 10 seconds after switching on the 4 volts D.C. supply.
3. Allow not less than one minute before taking the reading.