

VALVE ELECTRONIC

CV2983

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

Specification: No.GPO/CV2983 Issue 1 Dated: January 1956. To be read in conjunction with K 1001, BS 448 and BS 1409.	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
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<u>TYPE OF VALVE:-</u> Output pentode				<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated				See K1001/4		
<u>ENVELOPE:-</u> Glass, unmetallised				<u>BASE</u>		
<u>PROTOTYPE</u> DL 94				BS 448/B7G		
<u>RATING</u>			<u>Note</u>	<u>CONNEXIONS</u>		
<u>Filament voltage</u>	(V)	1.4		<u>Pin</u>	<u>Electrode</u>	
<u>Filament current</u>	(mA)	100	A	1	f(-)	
<u>Max. anode voltage</u>	(V)	100		2	a	
<u>Max. screen voltage</u>	(V)	100		3	g2	
<u>Max. cathode current</u>	(mA)	13		4	NC	
<u>Mutual conductance</u>	(mA/V)	2.15	B	5	f tap	
<u>Anode current</u>	(mA)	9.5	B	6	g1	
<u>Screen current</u>	(mA)	2.2	B	7	f(+)	
				<u>DIMENSIONS</u>		
				See B.S 448/B7G/2.1		
				Size ref. No. 2		
<u>CAPACITANCES</u>				<u>Dimension(mm)</u>	<u>Min.</u>	<u>Max.</u>
Cag		0.4	C	A seated height	-	47.5
Cin		5.5	C	C diameter	16	19.0
C out		3.8	C	D overall length	-	54.5
<u>NOTES</u>						
A. Pins 1 & 7 joined filament positive, centre tap pin 5 filament negative.						
B. Measured at Va = Vg2 = 90V & Vg1 = -4.5V						
C. No shield around valve.						

TESTS

To be performed in addition to those applicable in K 1001

	Test Conditions				Test	Limits		No. Test- ed	Note
	Vf (V)	Vg1 (V)	Vg2 (V)	Va (V)		Min.	Max.		
a	1.4	-	-	-	If (mA)	88	112	100% or S	
b	1.4	-4.5	90	90	Ia (mA)	6.5	12.5	100%	
c	1.4	-4.5	90	90	Ig2 (mA)	1.3	3.1	100%	
d	1.4	-4.5	90	90	-Ig1 (μ A)	-	1.0	100%	
e	1.4	-4.5	90	90	gm (mA/V)	1.8	2.5	100% or S	
f	1.1	-4.5	90	90	Underheating gm (mA/V)	1.4	-	100% or S	