

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.	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

<u>TYPE OF VALVE</u> : - Output pentode <u>CATHODE</u> : - Directly heated <u>ENVELOPE</u> : - Glass, unmetallised <u>PROTOTYPE</u> DL 94			<u>MARKING</u> See K1001/4		
			<u>BASE</u> BS 448/B7G		
<u>RATING</u>		Note	<u>CONNEXIONS</u>		
Filament voltage (V) 1.4 Filament current (mA) 100 Max. anode voltage (V) 100 Max. screen voltage (V) 100 Max. cathode current (mA) 13 Mutual conductance (mA/V) 2.15 Anode current (mA) 9.5 Screen current (mA) 2.2				<u>Pin</u> 1 2 3 4 5 6 7	<u>Electrode</u> f(-) a g2 NC f tap g1 f(+)
			<u>DIMENSIONS</u> See B.S 448/B7G/2.1 Size ref. No. 2		
<u>CAPACITANCES</u>			Dimension(mm)	Min.	Max.
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 $V_a = V_{g2} = 90V$ & $V_{g1} = -4.5V$ 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 (mA)	-	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	