

## VALVE ELECTRONIC CV1928

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

Specification: <b>GPO/CV1928/Issue 1</b>	<u>SECURITY</u>	
Dated: <b>November, 1952.</b>	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	UNCLASSIFIED	UNCLASSIFIED

—→ indicates a change

<u>TYPE OF VALVE:</u> - Var. $\mu$ RF Pentode <u>CATHODE:</u> - Indirectly Heated <u>ENVELOPE:</u> - Glass, unmetallised <u>PROTOTYPE</u> - 12BA 6			<u>MARKING</u> See K1001/4		
<u>RATING</u>		Note	<u>BASE</u> B7G		
Heater Voltage (V) 12.6 Heater Current (A) 0.15 Max. Anode Voltage (V) 330 Max. Screen Grid Voltage (V) 135 Max. Screen Grid Supply Voltage (V) 330 Max. Anode Dissipation (W) 3.3 Max. Screen Grid Dissipation (W) 0.7 Mutual Conductance (mA/V) 4.4 Anode Impedance (Megohms) 1.5 Max. Mutual Conductance at $V_{g1} = -20V$ ( $\mu A/V$ ) 100			<u>CONNECTIONS</u>		
			Pin	Electrode	
			1	G4	
			2	G3	
			3	H	
			4	H	
			5	A	
			6	G2	
			7	C	
			<u>DIMENSIONS</u> See K1001/AI/DL		
<u>Capacitance (pF)</u>			<u>Dimension</u>		<u>Min.</u> <u>Max.</u>
Cg1 - a (max.)		.0035		-	54.01
Cg1 - e		5.5	A mm	-	19.05
Ca - e		5.0	B mm	-	47.75
			L mm	-	4.75
			P mm	34.04	42.16
<u>NOTES</u>					
A. Measured at: $V_a = 250V$ ; $V_{g2} = 100V$ ; $V_{g3} = 0$ ; $R_o = 68$ ohms; $I_a = 11$ mA; $I_{g2} = 4.2$ mA.					
B. Measured with close fitting metal screen					
C. Absolute maximum values.					

Z.4290.R.

CV.1928/1/1

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No. Tested	Note	
								Min.	Max.			
See K1001/AIII							<u>CAPACITANCES (pF)</u>					
	Links to H.P.	Links to L.P.	Links to E.									
	1	5	2,3,4,6,7,8,9,10 TC.1 TC.2				Cg1a		.0035	T.A.		
a	1	2,3,4,6,7,8,9.	5,10,TC.1 TC.2				Cg1e	4.4	6.4	6	per week	1
	5	2,3,4,6,7,8,9.	1,10,TC.1 TC.2				Cae	3.5	6.5			
	Vh (V)	Va (V)	Vg2 (V)	Vg3 (V)	Ro (ohms)	Vg1 (V)				100% or S		
b	12.6	0	0	0	-	0	Ih (A)	.138	.162			
c	12.6	250	100	0	68	-	Ia (mA)	8.5	13.5	100%		
d	12.6	250	100	0	68	-	Ig2 (mA)	2.8	5.6	100% or S		
e	12.6	250	100	0	-	-1.5	Reverse Ig1 (μA)	-	1.0	100%		
f	12.6	250	100	0	68	-	gm (mA/V)	3.6	5.2	100%	2	
g	12.6	250	100	0	-	-20	gm (μA/V)	5	100	100% or S		
h	12.6	20	20	20	0	20	Emission (mA)	60	-	100%		
<p><u>NOTE</u></p> <ol style="list-style-type: none"> <li>1. Measured with a close fitting metal screen.</li> <li>2. Cathode resistor to be by-passed by 1000 uF condenser.</li> <li>3. Reference point for all potentials except heater and suppressor shall be the negative terminal of the cathode resistor.</li> </ol>												